

**HEAT SINKERS**  
DISSIPATION SYSTEMS AND ACCESSORIES





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## CERTIFICATO N. 39391/20/S CERTIFICATE No.

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITÀ DI  
IT IS HEREBY CERTIFIED THAT THE QUALITY MANAGEMENT SYSTEM OF

**TRE-S S.R.L.**

VIA DEL PROGRESSO 26 36050 SOVIZZO (VI) ITALIA  
NELLE SEGUENTI UNITÀ OPERATIVE / IN THE FOLLOWING OPERATIONAL UNITS

VIA DEL PROGRESSO 26 36050 Sovizzo (VI) ITALIA

È CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD

**ISO 9001:2015**

PER I SEGUENTI CAMPI DI ATTIVITÀ / FOR THE FOLLOWING FIELD(S) OF ACTIVITIES

PROGETTAZIONE E REALIZZAZIONE DI DISSIPATORI DI CALORE METALLICI PER APPARECCHIATURE INDUSTRIALI PER  
L'INDUSTRIA DI POTENZA.

IAF:17

DESIGN AND REALIZATION OF METALLIC HEAT DISSIPATORS FOR INDUSTRIAL EQUIPMENT FOR THE POWER INDUSTRY.

La validità del presente certificato è subordinata a sorveglianza periodica annuale / semestrale ed al riesame completo del sistema di gestione con periodicità triennale

*The validity of this certificate is dependent on an annual / six monthly audit and on a complete review, every three years, of the management system*

L'uso e la validità del presente certificato sono soggetti al rispetto del documento RINA: Regolamento per la Certificazione di Sistemi di Gestione per la Qualità

*The use and validity of this certificate are subject to compliance with the RINA document : Rules for the certification of Quality Management Systems*

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Paolo Taddia

Venice & Verona Management  
System Certification, Head



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SGQ N° 002 A

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Certificazione dei sistemi di gestione aziendale

*CISQ is the Italian Federation of  
management system Certification Bodies*

# **QUALITY**

*TRE-S is a company that operates in the power industry, particularly in the design and production of heat dissipators (made of aluminum, copper, and brass) and accessories and components that are used to dissipate heat generated by electronic components.*

*TRE-S has decided to adopt a Quality Management System (QMS) according to the international standard UNI EN ISO 9001:2015. To this end, it has defined its own context, the internal and external factors that influence it, the relevant interested parties, and their anticipated expectations. Moreover, strategic directions have been established to define quality objectives with the perspective of achieving success and ensuring sustainable growth for our customers as well.*

*The design, using CAD-CAM systems and CNC machining centers, is managed by a networked system and completely controlled by the technical office. The personnel undergo training, and checks are performed at every stage of the manufacturing process, allowing for a high level of quality. Quality control devices such as roughness testers, digital calipers, micrometers, plug gauges, etc., are used.*



*The quality objectives defined by TRE-S are as follows:* • Adherence to delivery deadlines

- Strong problem-solving skills for customer issues
- High quality standards for processed products and their competitiveness
- Prompt and clear communication with customers
- Achieving satisfactory financial results in line with investments made
- Relying on competent and reliable internal and external collaborators.

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# HISTORY

TRE-S is a rapidly expanding company. Founded in 1991, it operates in the mold production sector, from which it acquires knowledge of product peculiarities.

Over the years, evolution has led to specialization in the field of heat sink processing, which accounts for the majority of our revenue.

Through continuous investment, the company now boasts a working area of over 3500 square meters and employs over 40 collaborators who are trained and educated to achieve production excellence.

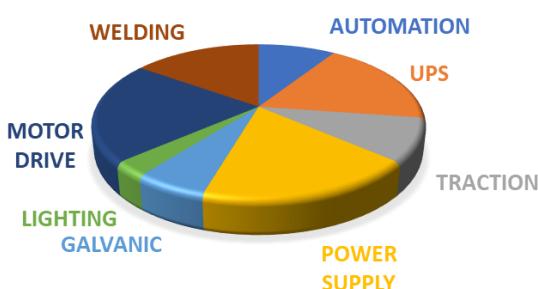
The extensive range of our custom and consumer products enables us to meet the most specific requests of our customers.

## STRENGTHS

- Over 30 years of experience
- 500,000 heat sinks produced per year
- 40 operational personnel
- Over 350 active molds
- Maximum production efficiency
- 6 sales representatives across Italy
- Tenacious pursuit of the "good of the company"
- Flexibility
- Involvement of collaborators.



## FIELD OF APPLICATION



Production is aimed at a wide range of application fields, including telecommunications, energy, automotive, motor drivers, power suppliers, railway, UPS, lighting, and more.

The research, development, and technical office sectors support the client from the idea to the design and ultimately to production.

Through specific thermal resistance calculation software, we are able to meet and respond to your needs both for existing products and for new studies.

Our business activities cater to both the Italian and international markets.

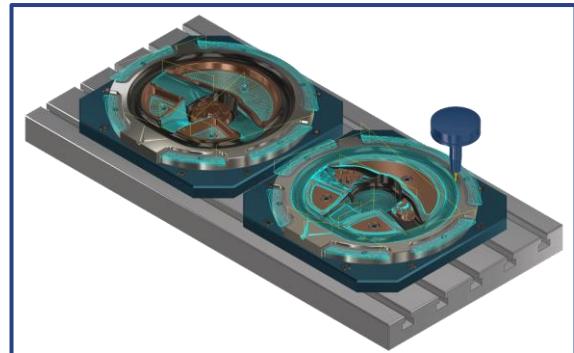
# **SERVICES**

## **CAD DESIGN**

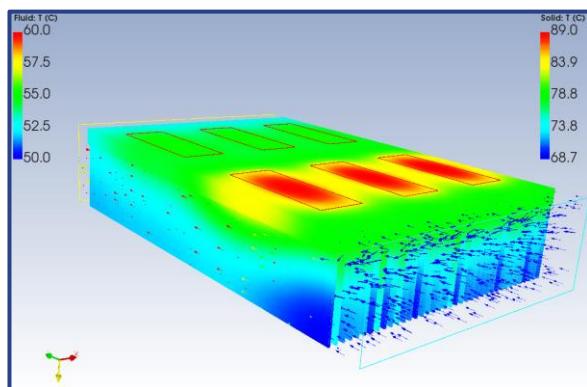
Through the use of state-of-the-art CAD software, we develop two-dimensional and three-dimensional models that reflect a project that is already a reality for us.

## **CUSTOM DIES**

The design, verification, and development of custom molds allow us to provide our customers with greater technical support in order to materialize every project.

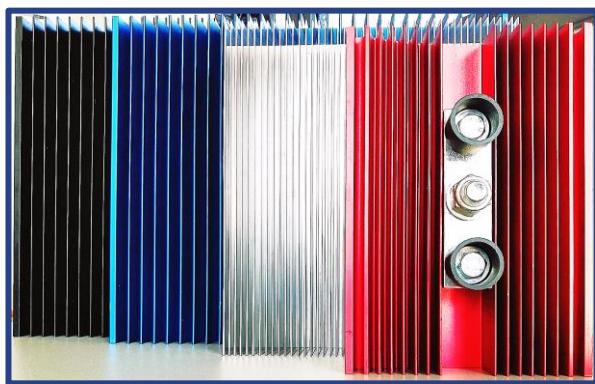


## **THERMAL RESISTANCE CALCULATION**



A strength of TRE-S is the use of a specific program called "Q-fin," which allows us to provide technical assistance to our customers through specific thermal studies. This enables us to calibrate new applications by managing the appropriate profile based on project specifications.

## **SURFACE TREATMENTS**



We are able to provide surface treatments on heat sinks such as:

- Anodizing*
- Sandblasting*
- Polishing*
- Surtec 650*
- Alodine 1200*

# TECHNICAL INFORMATION

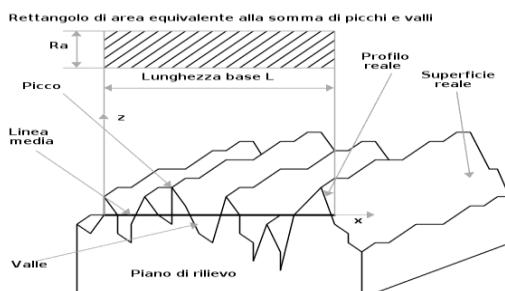
## TECHNOLOGY

- ✓ The tolerances on the nominal dimensions of the extruded profiles strictly follow the UNI 3879 (DIN 1748) standards.
- ✓ All machining dimensions without tolerance indication are subject to a medium precision level according to UNI 5307.
- ✓ Threaded holes have a useful thread depth of at least twice their diameter.
- ✓ Regarding geometric tolerances, the flatness value on surfaces can be defined as 0+/- 0.05 mm/m.

## ROUGHNESS MEASUREMENT

To introduce the concept of roughness measurement, it is necessary to define some characteristic parameters (see Figure 1):

- ✓ Measurement length (L): it is the section of the technical profile where roughness measurements are taken.
- ✓ Mean line of the profile: it is the compensating line of the actual profile, parallel to the technical profile, within the limits of the measurement length (L). Let  $y$  be the deviations of the actual profile from the mean line (measured orthogonally to it), and let  $x$  be the distance on the mean line between the starting point of the profile measurement and the point where  $y$  is measured (see Figure 1). The mean line of the profile is defined as the line that satisfies the following relationship:



(fig. 1)

## THE DEGREE OF FINISH OF THE MACHINED SURFACES

Roughness measurement is determined by the amplitude  $R$ , which represents the arithmetic mean value of the absolute deviations  $y$  of the actual profile from the mean line.

$$R_q = \sqrt{\frac{1}{L} \int_0^L y^2 dx}$$

**R** for Roughness stands for arithmetic mean.

Roughness measurements are expressed in  $\mu\text{m}$ . The roughness grade of a surface is defined as the maximum value of  $R$  among those measured at different points on the surface.

# MECHANICAL-CHEMICAL CHARACTERISTICS

## COMPARISON TABLE OF PLASTIC WORKING ALLOYS

Denominazione	- Uni - Italia		- Nf - Francia		- Din - Germania	- Bs - Regno Unito		Astm USA
	Rif. N. della norma	Designazione numerica	Designazione alfa numerica	Designazione numerica		Precedente designazione	Nuova designazione	
6060	9006/1	6060	A-GS	6060	Al Mg Si 0,5	(H9)	(6063)	(6063)
6063	9006/1	(6060)	(A-GS)	(6060)	(Al Mg Si 0,5)	H9	6063	6063
6082	9006/4	6082	A-SGM 0,7	6082	Al Mg Si 1	H30	(6082)	(6351)

## COMPARISON TABLE OF THE PHYSICAL STATES OF SUPPLY

Descrizione	Adm USA	- Uni - Italy/Italia		- Din - Germania	- NF - Francia	- BS - Regno unito	ISO
		EX					
Raffreddato al termine di un processo di lavorazione plastica ad elevata temperatura ed invecchiato artificialmente	T5	TaA	T5	F...	T5	TE	TE
Solubilizzato, temprato ed invecchiato artificialmente	T6	TA	T6	F...	T6	TF	TF

## CHEMICAL COMPOSITION BY WEIGHT

Denominazione Tre-s	Cu	Fe	Mn	Mg	Si	Zn	Cr	Ti	Al
6060	0,10	0,10 ÷ 0,30	0,10	0,35 ÷ 0,6	0,3 ÷ 0,6	0,15	0,05	0,10	Rem/Resto
6063	0,10	0,35	0,10	0,45 ÷ 0,90	0,2 ÷ 0,6	0,10	0,10	0,10	Rem/Resto
6082	0,10	0,50	0,4 ÷ 1	0,6 ÷ 1,2	0,7 ÷ 1,3	0,20	0,25	0,10	Rem/Resto

## MECHANICAL CHARACTERISTICS MECCANICHE

Descrizione Tre-s	Stato	Caratteristiche meccaniche minime o massime a norme UNI				Dimensioni	Caratteristiche meccaniche tipiche indicative delle leghe				
		Rm N/mm <sup>2</sup>	Rp 0.2 N/mm <sup>2</sup>	A5%	HB		Rm N/mm <sup>2</sup>	Rp 0.2 N/mm <sup>2</sup>	A5%	HB	
Estruso	6060	T5	190	150	12	55	Sp. = 12	210	160	18	60
		T6	205	165	10	60	Sp. = 8	220	200	15	75
	6063	T6	245	200	9	80	Sp. = 5	260	230	12	90
	6082	T6	315	270	10	95	Sp. = 5	270	225	10	105

## MECHANICAL CHARACTERISTICS

Descrizione	Densità (kg/m <sup>3</sup> )x10 <sup>3</sup>	Coefficiente di dilatazione termica 20÷100 °C [10 <sup>-6</sup> /°C]	Intervallo temperatura di fusione °C indicativo	Resistività elettrica		Conducibilità termica		Calore specifico 0÷100 °C [cal/g °C]	Modulo di elasticità N/mm <sup>2</sup>
				Stato	Omm <sup>2</sup> /mm	Stato%	W/mK		
6060	2,70	23,2	615 ÷ 655	T1	0,034	T1	193	0,23	69,000
				T5	0,031	T5	209		
				T6	0,033	T6	201		
6063	2,70	23,4	615 ÷ 655	T1	0,034	T1	193	0,23	69,000
				T5	0,031	T5	209		
				T6	0,033	T6	201		
6082	2,71	24	585 ÷ 645	T6	0,037	T6	167	0,23	69,000

# ASSEMBLED PROFILES

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

**Heat sinks are characterized by materials such as aluminum and copper, which are manufactured through a chemical molecular fusion between the block and the fins. This process aims to make the heat sink custom and more high-performing by increasing the dissipation surface through narrower fin spacing**

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



DISSIPATORI DI CALORE  
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## The application sectors include:

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SISTEMI DI DISSIPAZIONE E ACCESSORI

✓ **Welding industry (welding sector)**

✓ **Uninterruptible power supply industry (UPS)**

DISPATC

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✓ **Automotive industry**

✓ **Traction and braking industry**

✓ **Renewable energy industry**

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✓ **Electromedical sector industry**

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SISTEMI DI DISSIPAZIONE E ACCESSORI

# ASSEMBLED ALUMINIUM

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

## PROFILES

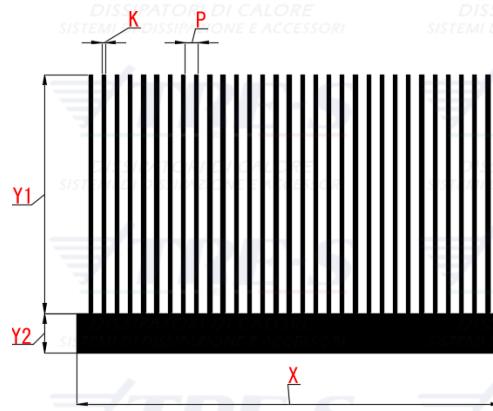
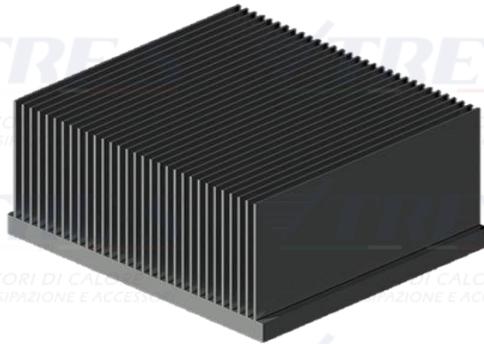
TRE-S

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

Assembled heat sinks are manufactured through a chemical molecular fusion between the base and the aluminum fins.

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

- Y1** = Altezza alettatura
- Y2** = Altezza massello
- K** = Larghezza aletta
- P** = Passo alettatura
- X** = Larghezza dissipatore
- Z** = Taglio



**PRA 1001**  
**Y1(FIN HEIGHT):** 120,7  
**Y2 (BASE HEIGHT):** 19,8  
**K (FIN WIDTH):** 2  
**P (FIN PITCH):** 7,12  
**X (HEAT SINK WIDTH):** 228  
**Z (CUT):** 406

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

Grafico della CDP e RTH in funzione della variazione della lunghezza

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

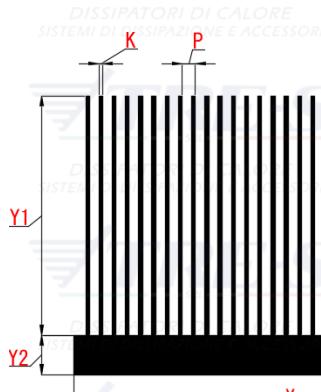
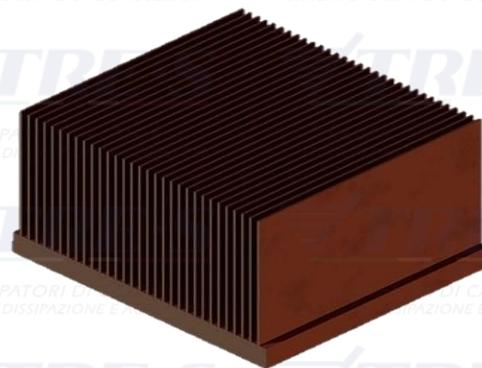
# COPPER ASSEMBLED

*DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI*

*DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI*

# PROFILES

*Assembled heat sinks are manufactured through a chemical molecular fusion between the base and the copper fins.*



**Y1** = Altezza alettatura  
**Y2** = Altezza massello  
**K** = Larghezza aletta  
**P** = Passo alettatura  
**X** = Larghezza dissipatore  
**Z** = Taglio

PRA1003

**Y1 (FIN HEIGHT): 120.7**

Y2 (BASE HEIGHT): 19.8

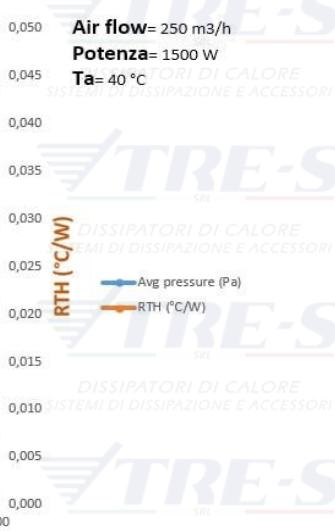
*K (FIN WIDTH): 2*

P (FIN PITCH): 7.12

X (HEAT SINK WIDTH): 228

Z (CUT): 406

Grafico della CDP e RTH in funzione della variazione della lunghezza



## ASSEMBLED PROFILES

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORIDISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORIDISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

DISSIPATORI DI CALORE

SISTEMI DI DISSIPAZIONE E ACCESSORI

Assembled heat sinks are manufactured through a chemical molecular fusion between the base and the aluminum-copper fins.

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORIDISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

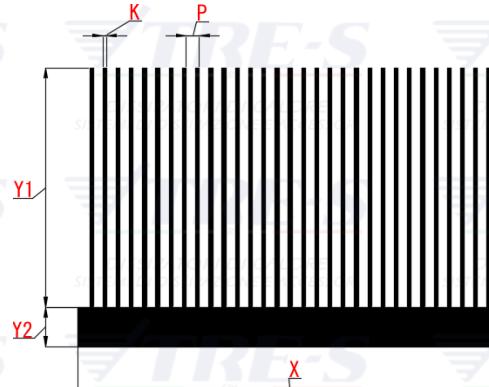
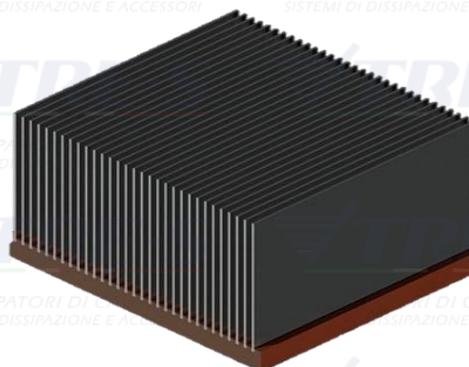
DISSIPATORI DI CALORE

SISTEMI DI DISSIPAZIONE E ACCESSORI

DISSIPATORI DI CALORE

SISTEMI DI DISSIPAZIONE E ACCESSORI

- Y1** = Altezza alettatura
- Y2** = Altezza massello
- K** = Larghezza aletta
- P** = Passo alettatura
- X** = Larghezza dissipatore
- Z** = Taglio

**PRA1002**

Y1 (FIN HEIGHT): 120.7

Y2 (BASE HEIGHT): 19.8

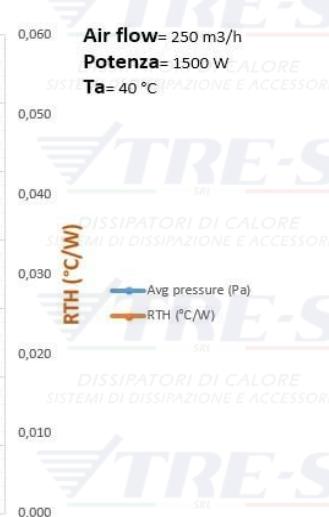
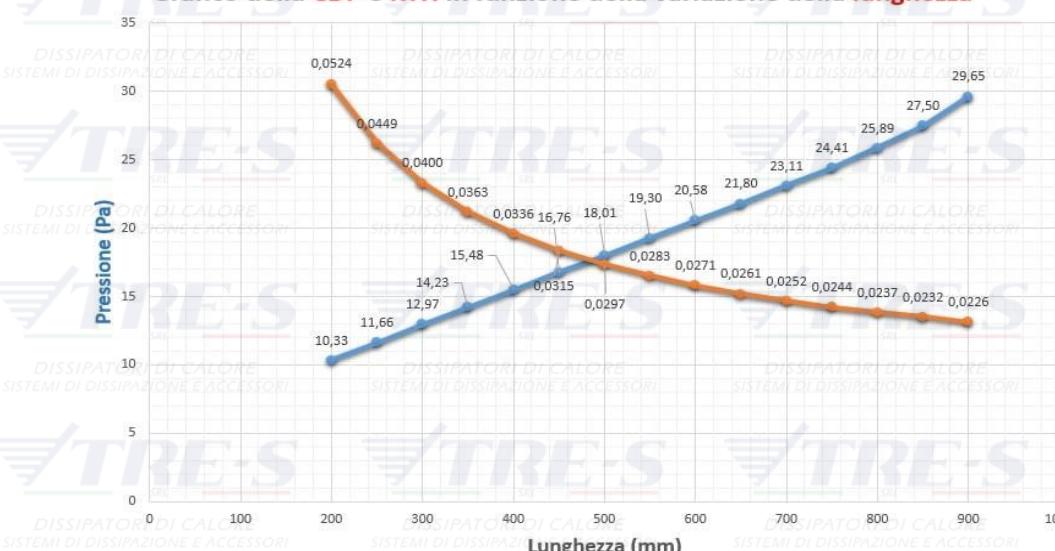
K (FIN WIDTH): 2

P (FIN PITCH): 7.12

X (HEAT SINK WIDTH): 228

Z (CUT): 406

Grafico della CDP e RTH in funzione della variazione della lunghezza



# LIQUID HEAT SINKS

DISSIPATORI DI CALORE

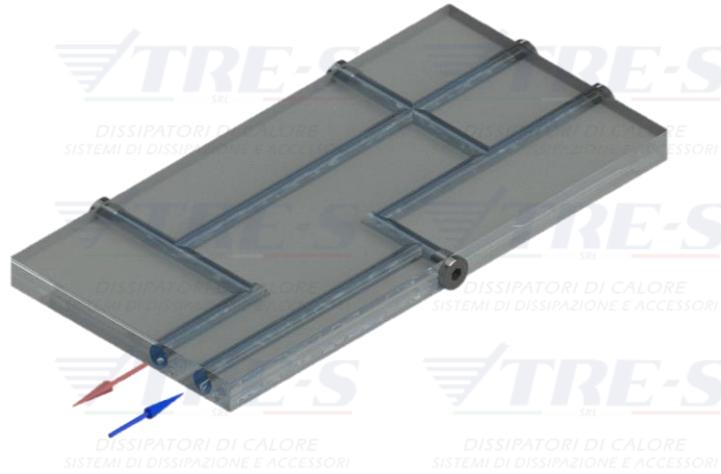
DISSIPATORI DI CALORE

DISSIPATORI DI CALORE

DISSIPATORI DI CALORE

Liquid heat sinks with through-holes are obtained either directly through extrusion or by deep drilling solid plates. The circuit of the channels, whether extruded or custom-designed, is achieved by sealing the channels externally and internally at specific points defined by the customer's project. By using sealed plugs, we can control the circulation of the liquid within the plate.

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



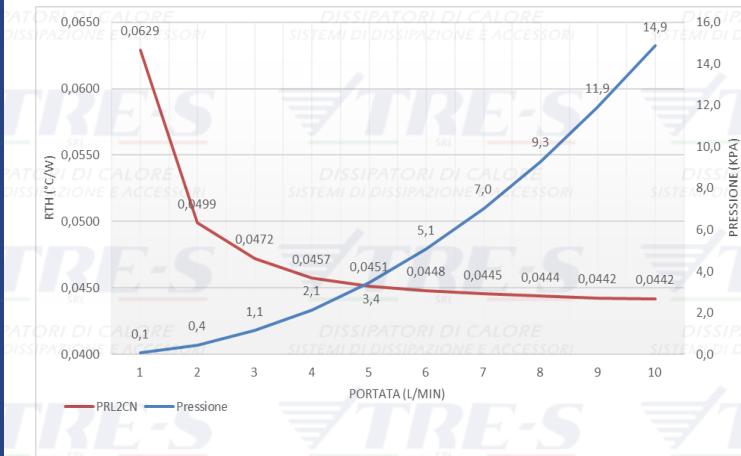
DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

## Advantages of liquid heat sink:

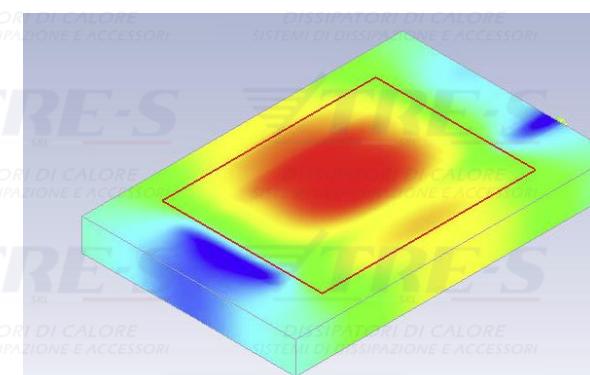
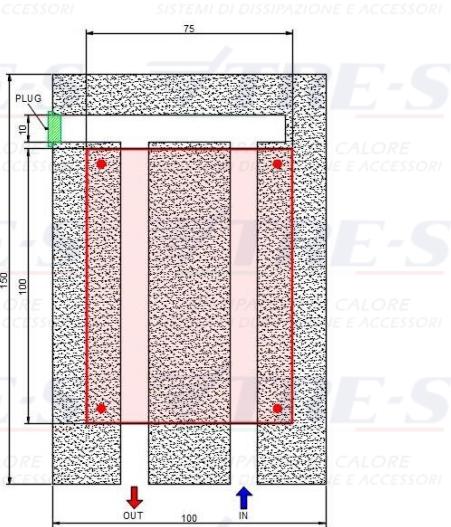
1. The ability to separate the area where power is generated, which is usually limited, from the dissipation area.
2. Avoiding noise and issues caused by vibrations.
3. Suitable for use in dusty environments where forced air is not feasible.

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

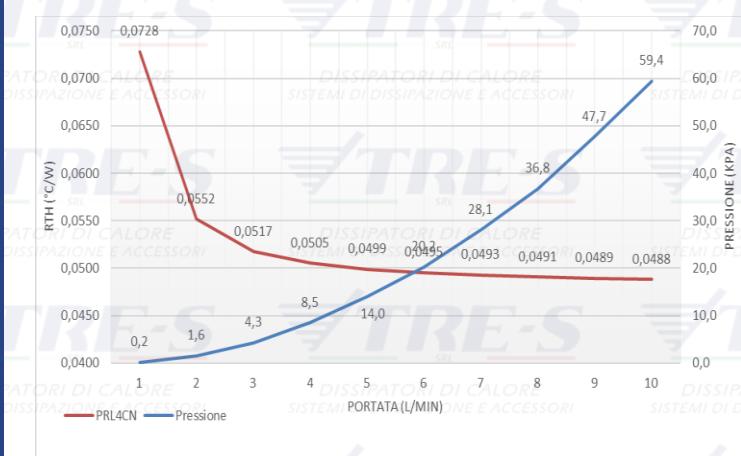
# PRL 150x100x20 2 Fori passanti



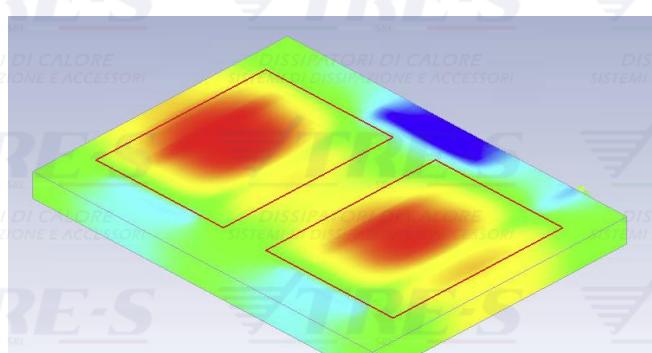
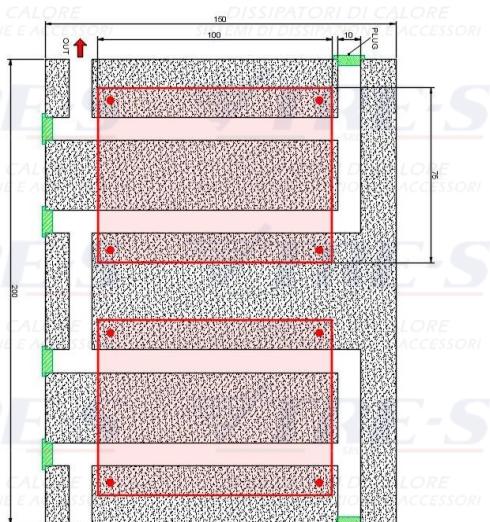
Piastra di base: Al EN AW-6060  
 Liquido dissipativo: H<sub>2</sub>O, Tin 25°C  
 Potenza Dissipata: 1 kW (A Modulo)



# PRL 150x200x20 4 Fori passanti



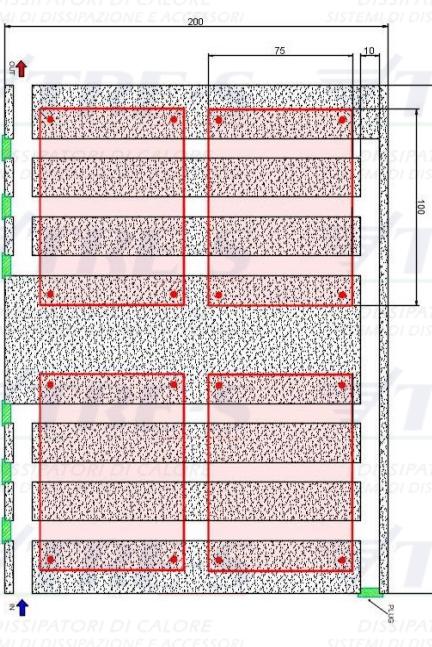
Piastra di base: Al EN AW-6060  
 Liquido dissipativo: H<sub>2</sub>O, Tin 25°C  
 Potenza Dissipata: 1 kW (A Modulo)



# PRL 200x260x20 6 Fori passanti



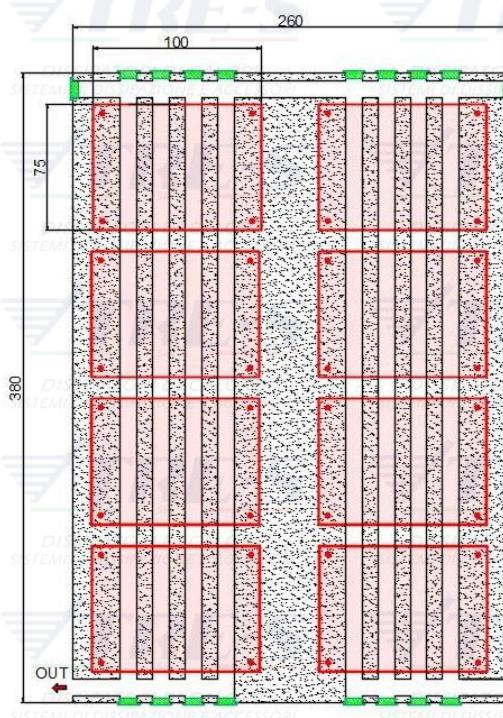
Piastra di base: Al EN AW-6060  
 Liquido dissipativo: H<sub>2</sub>O, Tin 25°C  
 Potenza Dissipata: 1 kW (A Modulo)



# PRL 380x260x20 8 Fori passanti



Piastra di base: Al EN AW-6060  
 Liquido dissipativo: H<sub>2</sub>O, Tin 25°C  
 Potenza Dissipata: 1 kW (A Modulo)



PR01003	Pag. 18	PR01083	Pag. 30	PR01178	Pag. 32	PR01255	Pag. 25
PR01005	Pag. 19	PR01084	Pag. 30	PR01179	Pag. 32	PR01256	Pag. 25
PR01010	Pag. 19	PR01085	Pag. 35	PR01181	Pag. 33	PR01257	Pag. 37
PR01013	Pag. 18	PR01092	Pag. 20	PR01183	Pag. 33	PR01258	Pag. 18
PR01014	Pag. 18	PR01093	Pag. 20	PR01186	Pag. 33	PR01259	Pag. 30
PR01015	Pag. 19	PR01094	Pag. 21	PR01187	Pag. 33	PR01260	Pag. 36
PR01016	Pag. 20	PR01095	Pag. 21	PR01188	Pag. 35	PR01261	Pag. 18
PR01017	Pag. 19	PR01096	Pag. 20	PR01189	Pag. 35	PR01262	Pag. 36
PR01018	Pag. 18	PR01098	Pag. 21	PR01191	Pag. 35	PR01263	Pag. 38
PR01019	Pag. 18	PR01100	Pag. 19	PR01193	Pag. 35	PR01264	Pag. 38
PR01022	Pag. 29	PR01102	Pag. 21	PR01194	Pag. 35	PR01266	Pag. 30
PR01023	Pag. 20	PR01105	Pag. 21	PR01195	Pag. 35	PR01267	Pag. 38
PR01024	Pag. 18	PR01108	Pag. 21	PR01196	Pag. 35	PR01268	Pag. 23
PR01025	Pag. 20	PR01109	Pag. 21	PR01197	Pag. 36	PR01269	Pag. 35
PR01026	Pag. 20	PR01114	Pag. 23	PR01198	Pag. 36	PR01270	Pag. 21
PR01027	Pag. 20	PR01117	Pag. 23	PR01199	Pag. 36	PR01271	Pag. 29
PR01028	Pag. 29	PR01124	Pag. 23	PR01200	Pag. 20	PR01273	Pag. 27
PR01029	Pag. 19	PR01125	Pag. 23	PR01201	Pag. 36	PR01274	Pag. 29
PR01030	Pag. 19	PR01126	Pag. 45	PR01202	Pag. 36	PR01275	Pag. 21
PR01031	Pag. 30	PR01127	Pag. 45	PR01203	Pag. 37	PR01279	Pag. 32
PR01032	Pag. 29	PR01128	Pag. 46	PR01206	Pag. 37	PR01281	Pag. 31
PR01033	Pag. 29	PR01130	Pag. 18	PR01207	Pag. 37	PR01282	Pag. 35
PR01038	Pag. 29	PR01132	Pag. 46	PR01209	Pag. 37	PR01283	Pag. 32
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PR01042	Pag. 30	PR01138	Pag. 45	PR01212	Pag. 37	PR01287	Pag. 30
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PR01047	Pag. 18	PR01141	Pag. 45	PR01217	Pag. 38	PR01291	Pag. 27
PR01048	Pag. 19	PR01142	Pag. 45	PR01218	Pag. 38	PR01292	Pag. 34
PR01049	Pag. 19	PR01143	Pag. 45	PR01219	Pag. 38	PR01293	Pag. 33
PR01050	Pag. 18	PR01144	Pag. 45	PR01220	Pag. 38	PR01294	Pag. 34
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PR01055	Pag. 21	PR01149	Pag. 33	PR01230	Pag. 33	PR01298	Pag. 27
PR01059	Pag. 23	PR01150	Pag. 37	PR01232	Pag. 33	PR01299	Pag. 25
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PR01063	Pag. 23	PR01158	Pag. 36	PR01236	Pag. 33	PR01306	Pag. 27
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PR01069	Pag. 20	PR01166	Pag. 31	PR01238	Pag. 34	PR01309	Pag. 36
PR01071	Pag. 20	PR01167	Pag. 31	PR01239	Pag. 34	PR01310	Pag. 35
PR01072	Pag. 45	PR01168	Pag. 31	PR01240	Pag. 34	PR01316	Pag. 31
PR01073	Pag. 29	PR01169	Pag. 31	PR01241	Pag. 34	PR01318	Pag. 31
PR01075	Pag. 29	PR01170	Pag. 32	PR01248	Pag. 32	PR01323	Pag. 37
PR01076	Pag. 30	PR01171	Pag. 31	PR01249	Pag. 46	PR01325	Pag. 35
PR01077	Pag. 30	PR01173	Pag. 32	PR01250	Pag. 29	PR01329	Pag. 27
PR01079	Pag. 32	PR01174	Pag. 32	PR01251	Pag. 29	PR01331	Pag. 31
PR01080	Pag. 30	PR01175	Pag. 32	PR01252	Pag. 19	PR01332	Pag. 32
PR01082	Pag. 30	PR01177	Pag. 32	PR01254	Pag. 25	PR01333	Pag. 31

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

PRI1001	Pag. 40	PRI1009B	Pag. 42	PRI1020	Pag. 40	PRI1033	Pag. 42
PRI1002	Pag. 41	PRI1010A	Pag. 42	PRI1021	Pag. 40	PRI1033A	Pag. 42
PRI1002D	Pag. 41	PRI1010B	Pag. 42	PRI1022	Pag. 40	PRI1033B	Pag. 42
PRI1003	Pag. 42	PRI1011A	Pag. 42	PRI1024	Pag. 42	PRI1034	Pag. 41
PRI1003 C	Pag. 43	PRI1011B	Pag. 42	PRI1025A	Pag. 42	PRI1035	Pag. 41
PRI1003D	Pag. 42	PRI1012	Pag. 41	PRI1025B	Pag. 42	PRI1036 DX	Pag. 41
PRI1004	Pag. 42	PRI1013	Pag. 42	PRI1026	Pag. 40	PRI1036 SX	Pag. 41
PRI1005	Pag. 40	PRI1014 AB	Pag. 40	PRI1027	Pag. 41	PRI1038	Pag. 43
PRI1006	Pag. 40	PRI1016	Pag. 41	PRI1028A	Pag. 40	PRI1039 A	Pag. 43
PRI1007A	Pag. 40	PRI1017A	Pag. 41	PRI1028B	Pag. 40	PRI1039 B	Pag. 43
PRI1007B	Pag. 40	PRI1017B	Pag. 41	PRI1029	Pag. 40	PRI1040	Pag. 40
PRI1008A	Pag. 41	PRI1018	Pag. 41	PRI1030	Pag. 40	PRI1041 A	Pag. 40
PRI1008B	Pag. 41	PRI1019A	Pag. 41	PRI1031	Pag. 42	PRI1041 B	Pag. 40
PRI1009A	Pag. 42	PRI1019B	Pag. 41	PRI1032	Pag. 40		

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

# PROFILES FOR LOW AND MEDIUM POWER

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

## MEDIUM POWER

TRE-S  
SRL

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

**Heat sinks for low and medium power applications are characterized by fins of various structures and sizes, with a flat area on which to place the components.**

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

TRE-S  
SRL

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

TRE-S  
SRL

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

TRE-S  
SRL

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

TRE-S  
SRL

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

DISSIPATORI DI CALORE  
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TRE-S  
SRL

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

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SISTEMI DI DISSIPAZIONE E ACCESSORI

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

TRE-S  
SRL

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

DISSIPATORI DI CALORE  
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DISSIPATORI DI CALORE  
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TRE-S  
SRL

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

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TRE-S  
SRL

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

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DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

TRE-S  
SRL

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

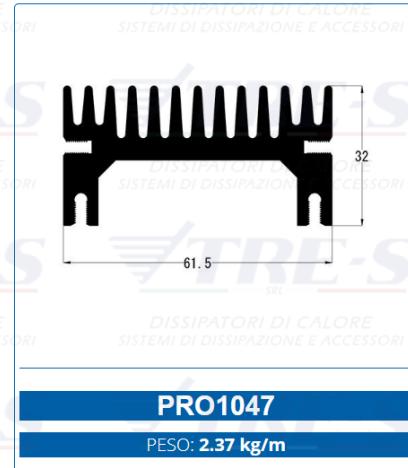
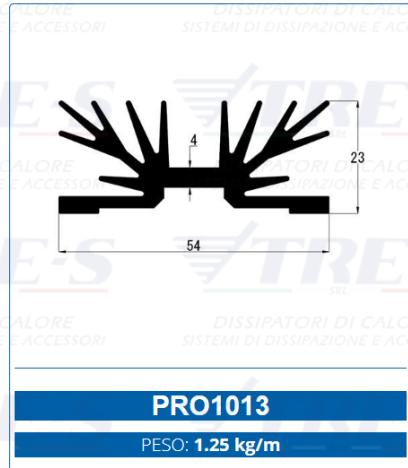
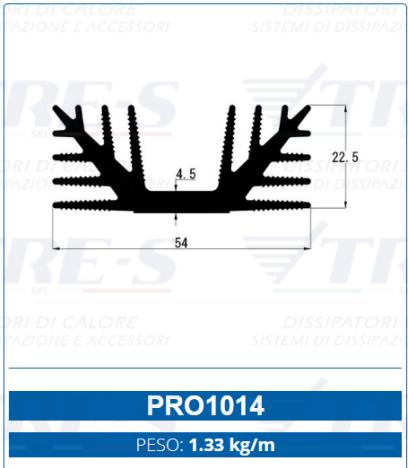
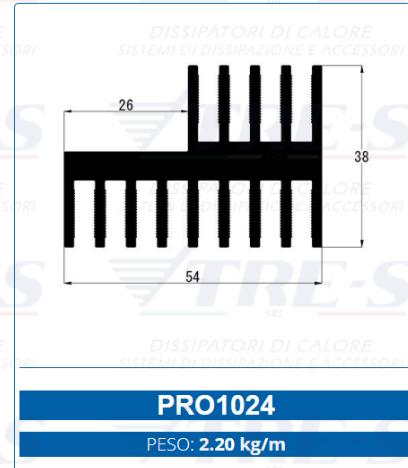
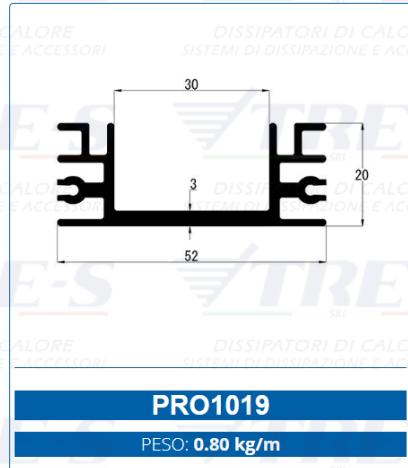
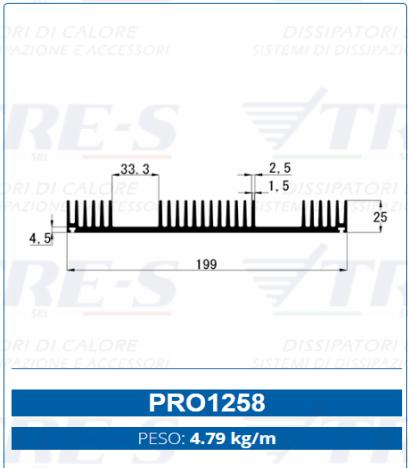
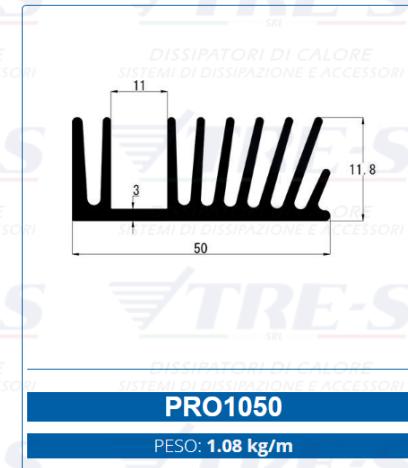
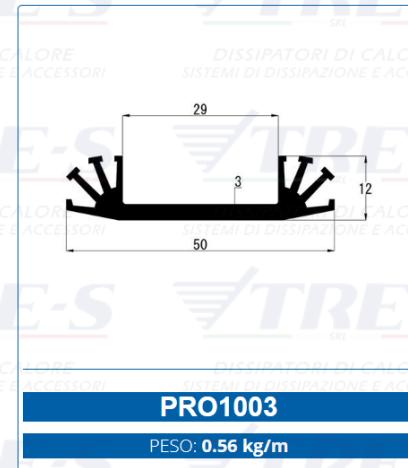
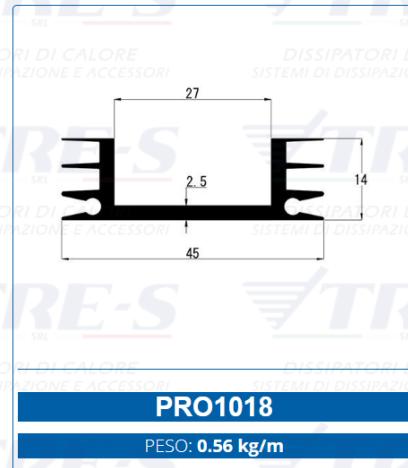
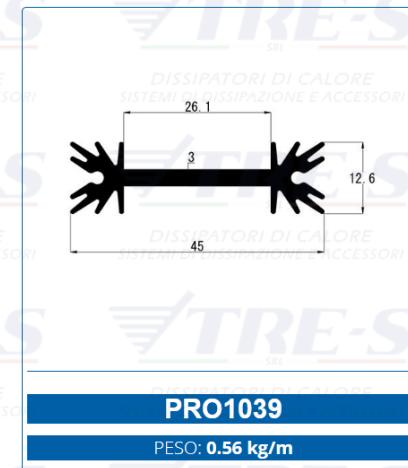
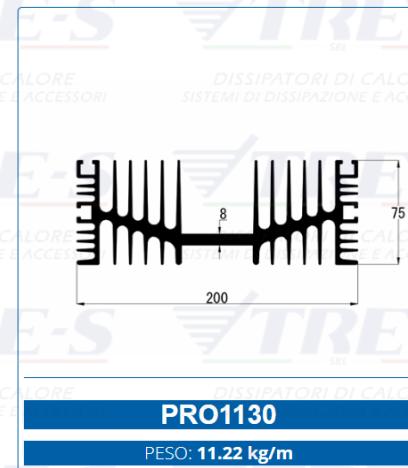
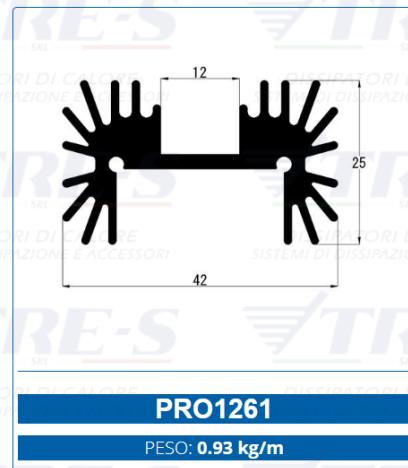
DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

**The application sectors include:**

- ✓ **Welding industry (welding sector)**
- ✓ **Renewable energy industry**
- ✓ **LED technology industry**
- ✓ **Electromedical sector industry**

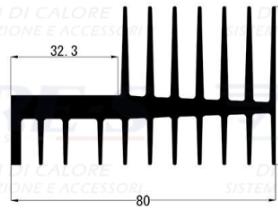
# PROFILES FOR LOW AND MEDIUM POWER



# PROFILES FOR LOW AND MEDIUM POWER

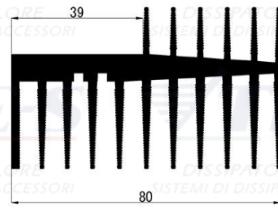
<p><b>PRO1005</b> PESO: 0.25 kg/m</p>	<p><b>PRO1100</b> PESO: 0.68 kg/m</p>	<p><b>PRO1053</b> PESO: 0.78 kg/m</p>
<p><b>PRO1010</b> PESO: 0.42 kg/m</p>	<p><b>PRO1252</b> PESO: 0.69 kg/m</p>	<p><b>PRO1017</b> PESO: 0.71 kg/m</p>
<p><b>PRO1048</b> PESO: 1.25 kg/m</p>	<p><b>PRO1049</b> PESO: 1.23 kg/m</p>	<p><b>PRO1015</b> PESO: 1.24 kg/m</p>
<p><b>PRO1029</b> PESO: 2.65 kg/m</p>	<p><b>PRO1030</b> PESO: 4.13 kg/m</p>	<p><b>PRO1051</b> PESO: 1.17 kg/m</p>

# PROFILES FOR LOW AND MEDIUM POWER



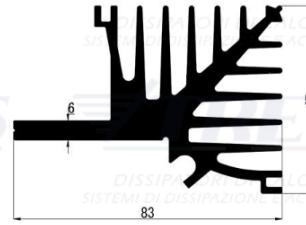
**PRO1023**

PESO: **2.80 kg/m**



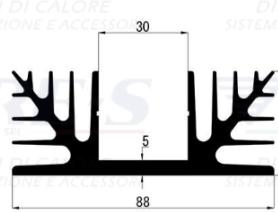
**PRO1069**

PESO: **3.28 kg/m**



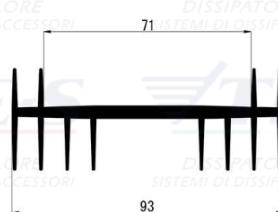
**PRO1071**

PESO: **4.00 kg/m**



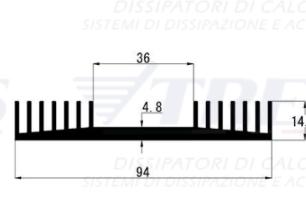
**PRO1025**

PESO: **2.77 kg/m**



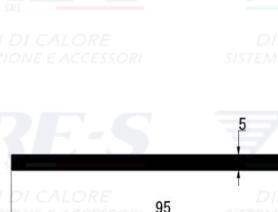
**PRO1096**

PESO: **1.80 kg/m**



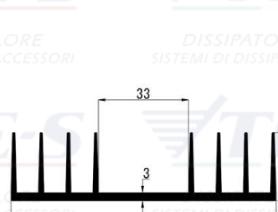
**PRO1092**

PESO: **1.61 kg/m**



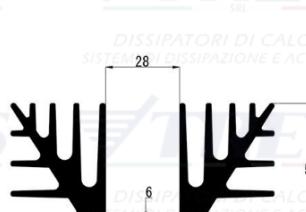
**PRO1200**

PESO: **1.28 kg/m**



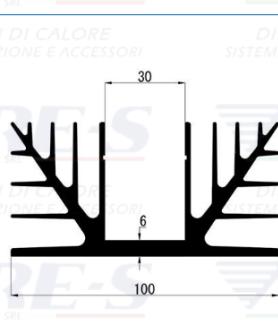
**PRO1093**

PESO: **1.49 kg/m**

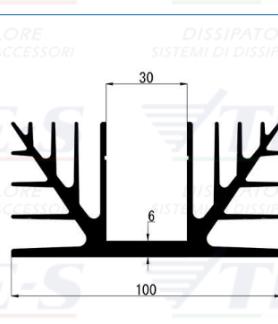


**PRO1027P**

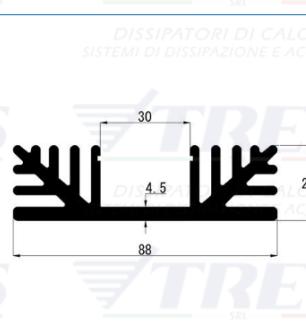
PESO: **5.16 kg/m**



PESO: **4.20 kg/m**

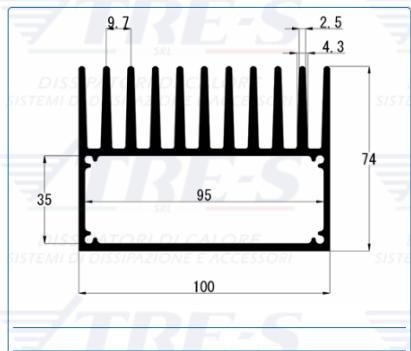


PESO: **3.66 kg/m**



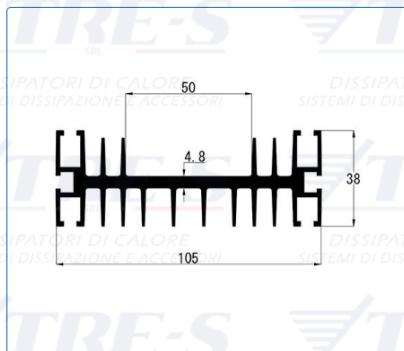
PESO: **2.83 kg/m**

# PROFILES FOR LOW AND MEDIUM POWER



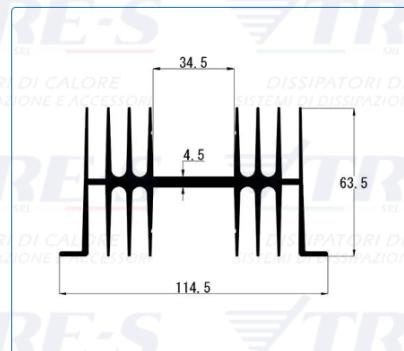
**PRO1270**

PESO: 5.33 kg/m



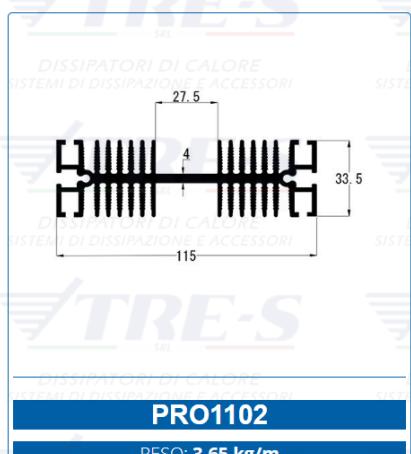
**PRO1098**

PESO: 2.72 kg/m



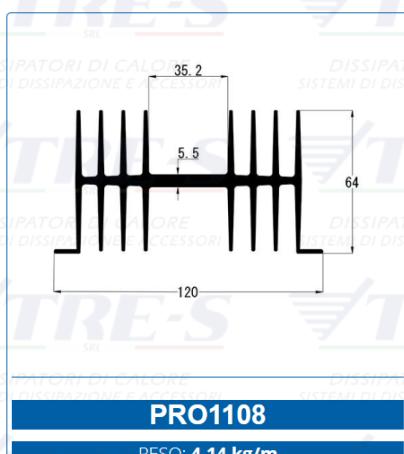
**PRO1105**

PESO: 3.46 kg/m



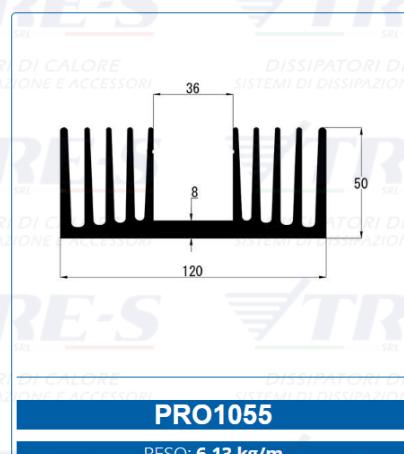
**PRO1102**

PESO: 3.65 kg/m



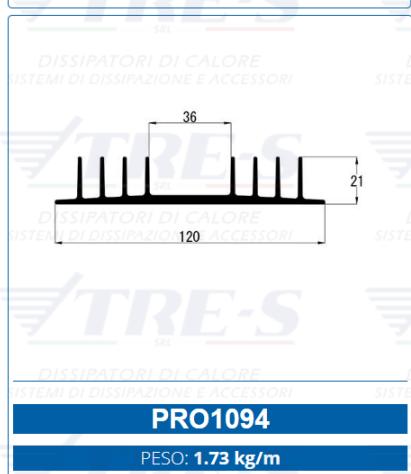
**PRO1108**

PESO: 4.14 kg/m



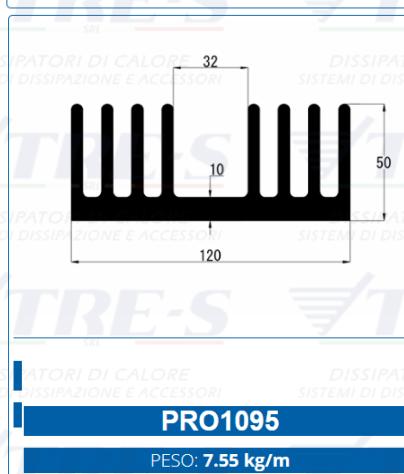
**PRO1055**

PESO: 6.13 kg/m



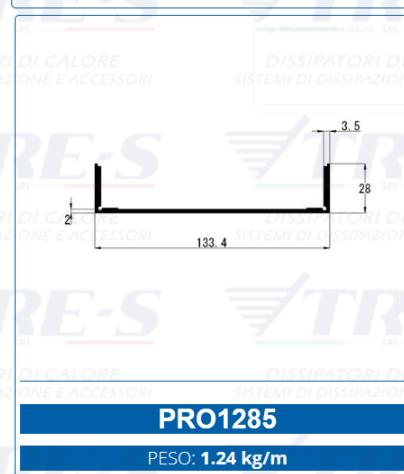
**PRO1094**

PESO: 1.73 kg/m



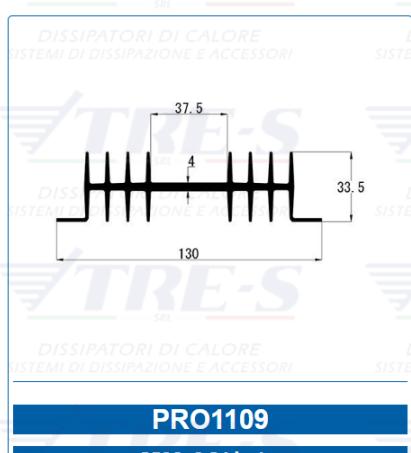
**PRO1095**

PESO: 7.55 kg/m



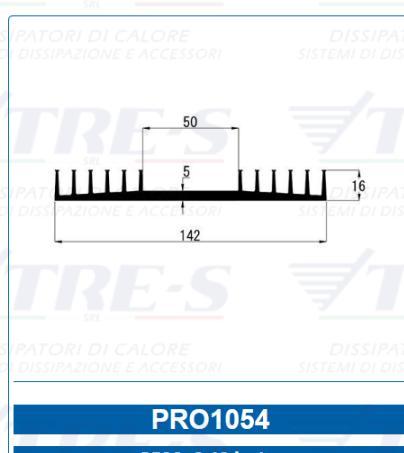
**PRO1285**

PESO: 1.24 kg/m



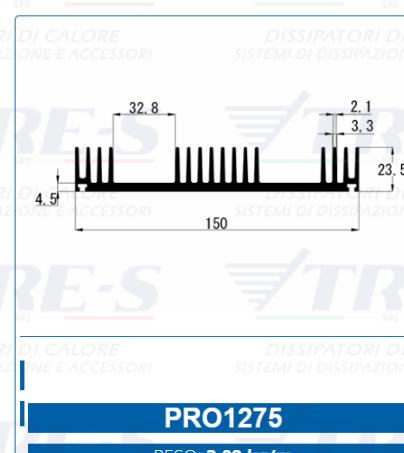
**PRO1109**

PESO: 2.34 kg/m



**PRO1054**

PESO: 2.19 kg/m



**PRO1275**

PESO: 3.09 kg/m

# PROFILES FOR SCREW ATTACHMENT DEVICES

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

## ATTACHMENT DEVICES

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

**High thermal inertia profiles for devices with high heat dissipation capacity. These heat sinks are used with a screw guide rail, which allows for easier installation on the structure.**

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

**The application sectors include:**

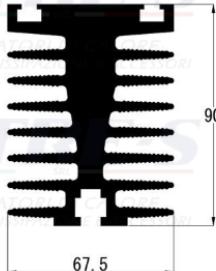
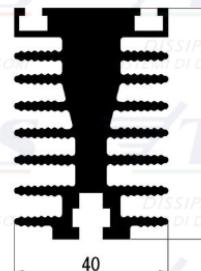
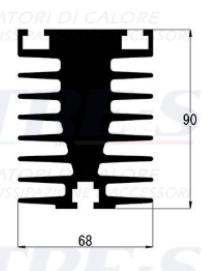
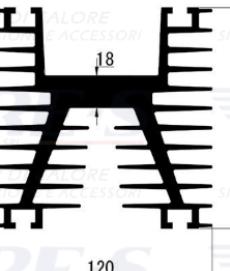
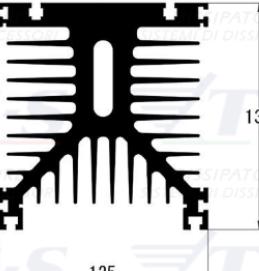
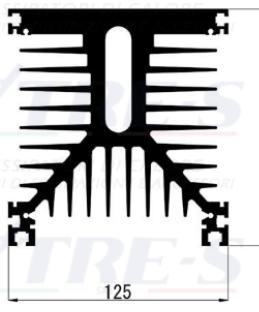
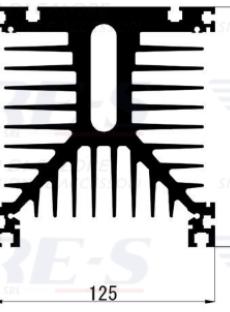
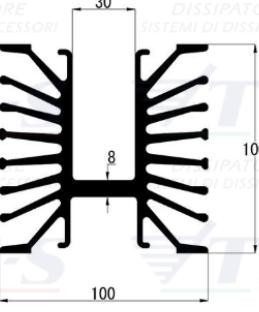
✓ **Welding industry**

✓ **Uninterruptible Power Supply (UPS) industry**

✓ **Automotive industry**

✓ **Traction and braking industry**

# PROFILES FOR SCREW ATTACHMENT DEVICES

 <p><b>PRO1063</b> PESO: <b>8.29 kg/m</b></p>	 <p><b>PRO1059</b> PESO: <b>13.41 kg/m</b></p>	 <p><b>PRO1061</b> PESO: <b>2.26 kg/m</b></p>
 <p><b>PRO1062</b> PESO: <b>8.64 kg/m</b></p>	 <p><b>PRO1117</b> PESO: <b>11.18 kg/m</b></p>	 <p><b>PRO1124P</b> PESO: <b>17.59 kg/m</b></p>
 <p><b>PRO1268</b> PESO: <b>15.34 kg/m</b></p>	 <p><b>PRO1125L</b> PESO: <b>15.64 kg/m</b></p>	 <p><b>PRO1114</b> PESO: <b>7.66 kg/m</b></p>



# LARGE WELDED HEATSINKS



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

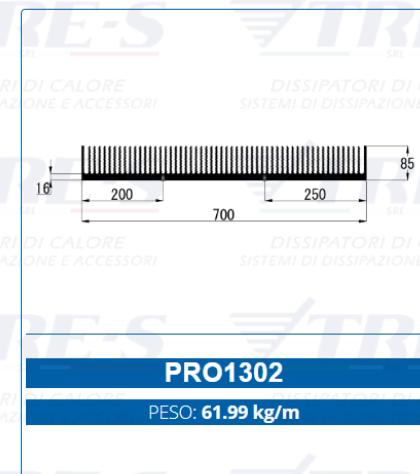
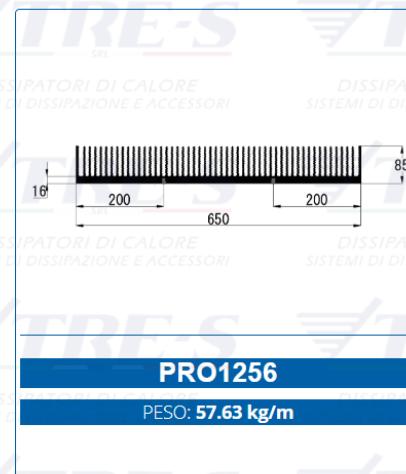
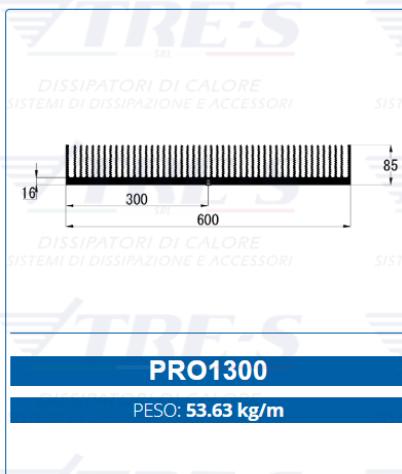
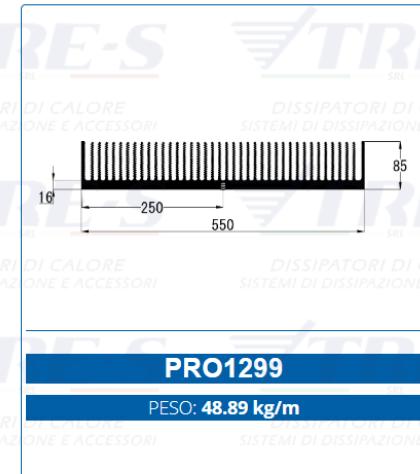
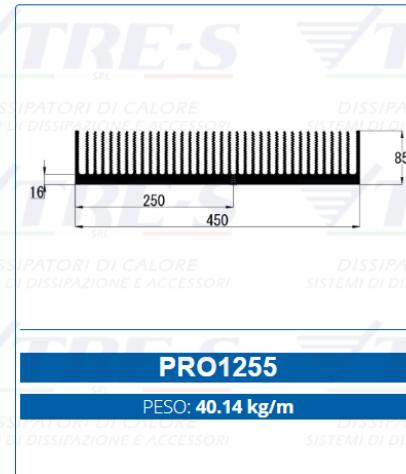
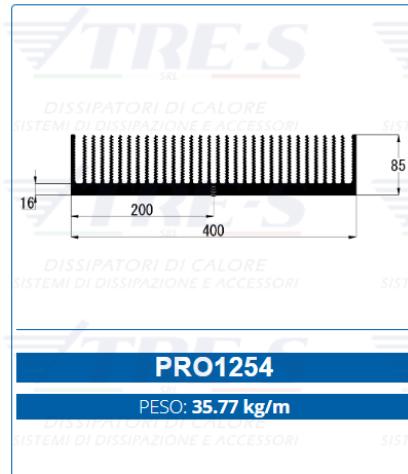
Large welded heat sinks are used to achieve a profile that  
would not be possible to extrude with current technologies.

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

The application sectors include:

- ✓ Uninterruptible Power Supply (UPS) industry
- ✓ Automotive industry
- ✓ Traction and braking industry

# LARGE WELDED HEATSINKS



# HEATSINKS WITH CLIP-ON RE-S

# SYSTEM

*DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI*

REFETTO N°

2008A000295

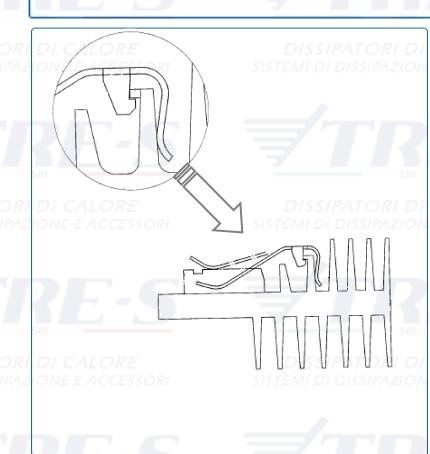
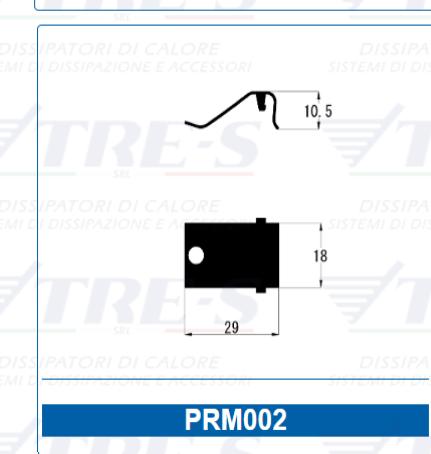
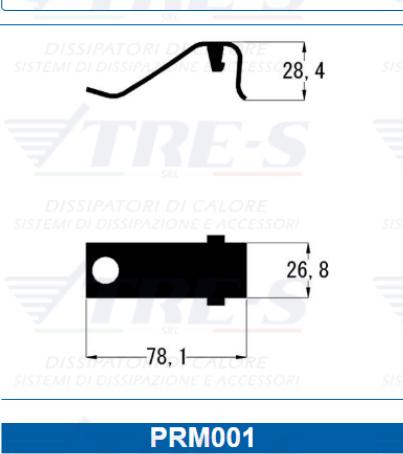
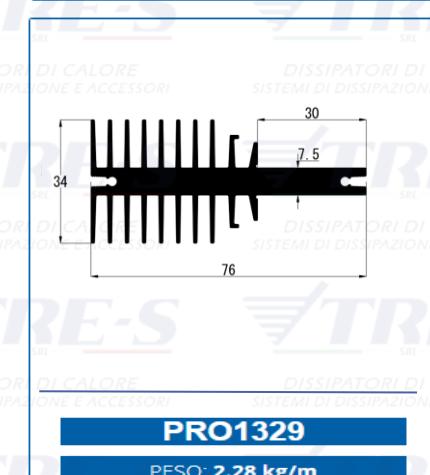
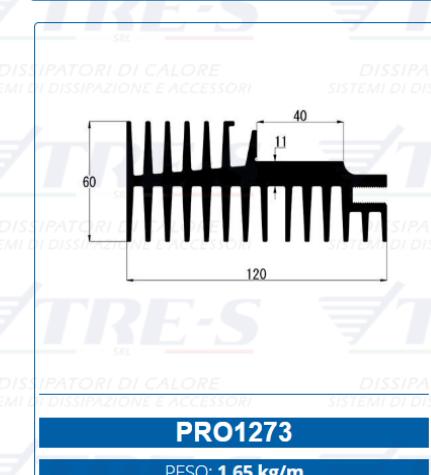
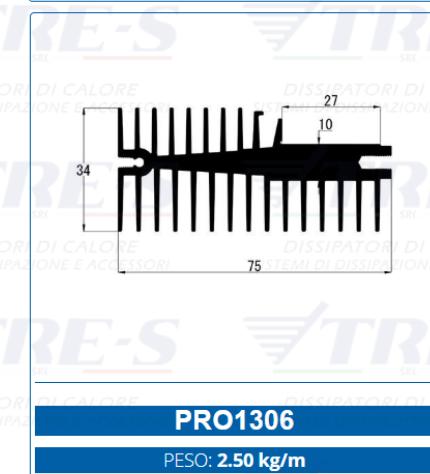
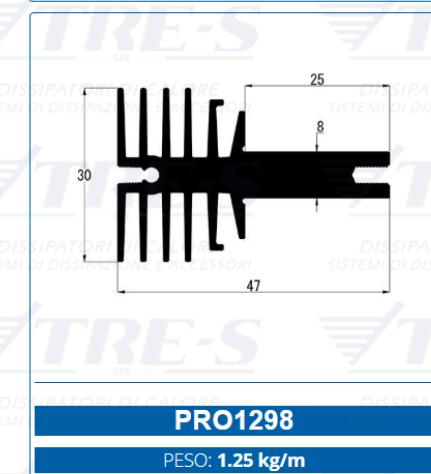
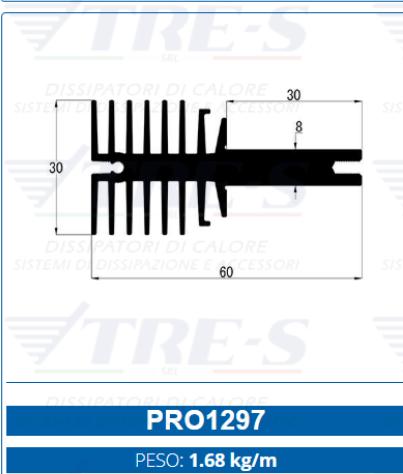
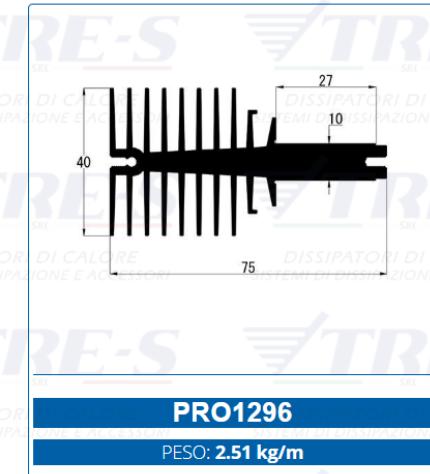
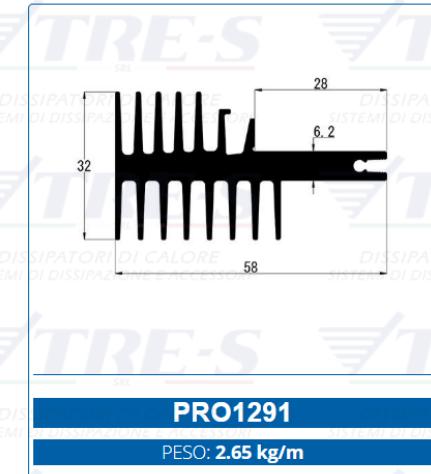
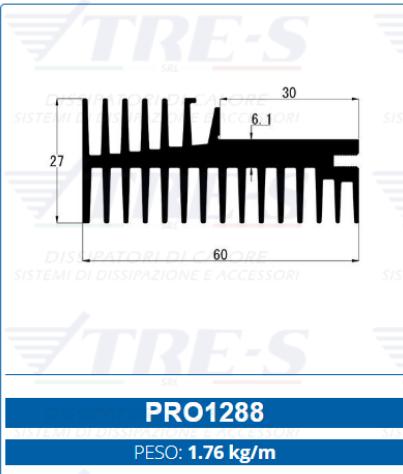
**Heat sinks equipped with an elastic element for securing the components attached to it. The advantage of this system is evident, as it ensures effective fastening of the components using a quick attachment device composed of a sheet made of elastically deformable material that does not require special processing.**



## *Application sectors:*

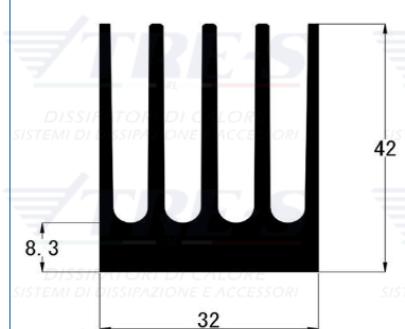
- ✓ **Welding industry**  
SISTEMI DI DISSIPAZIONE E ACCESSORI
  - ✓ **Renewable energy industry**
  - ✓ **LED technology industry**
  - ✓ **Electromedical sector industry**  
DISSIPATORI DI CALORE  
AZIONE E ACCESSORI

# HEATSINKS WITH CLIP SYSTEM



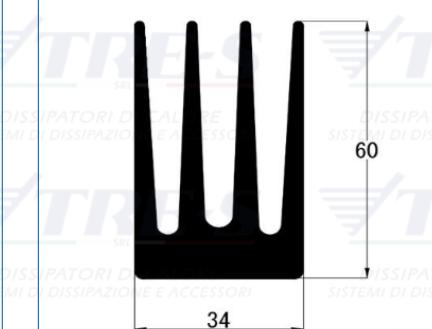


# HEATSINKS FOR POWER MODULES



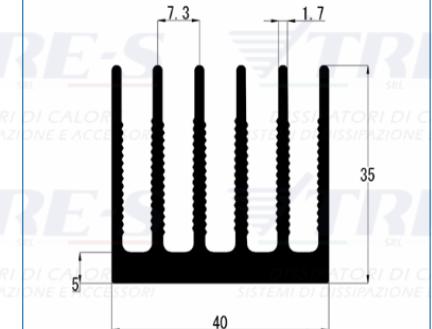
**PRO1274**

PESO: 1.95 kg/m



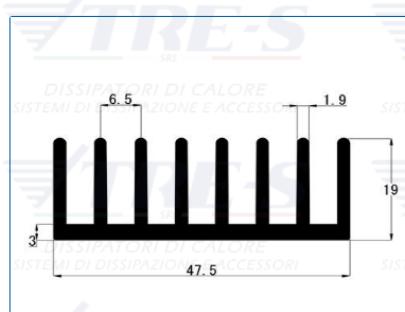
**PRO1033**

PESO: 2.84 kg/m



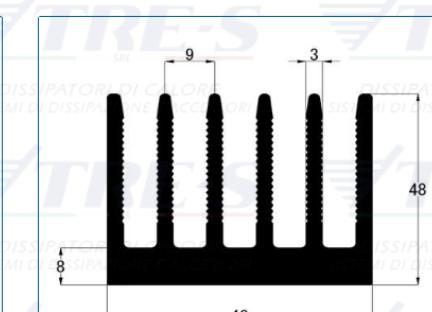
**PRO1251**

PESO: 2.35 kg/m



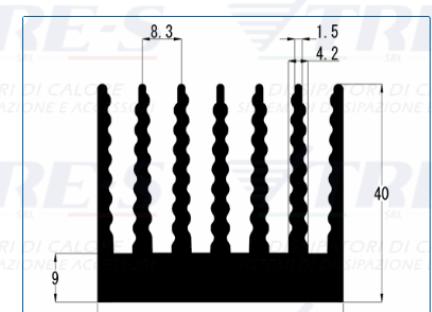
**PRO1038**

PESO: 1.07 kg/m



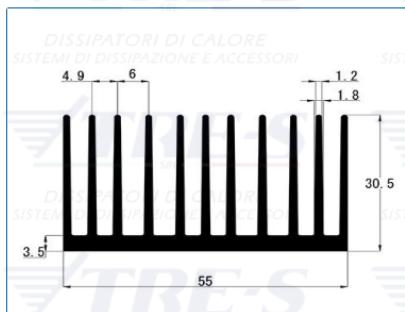
**PRO1250**

PESO: 2.44 kg/m



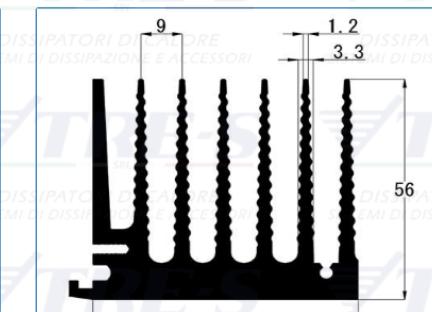
**PRO1271**

PESO: 2.60 kg/m



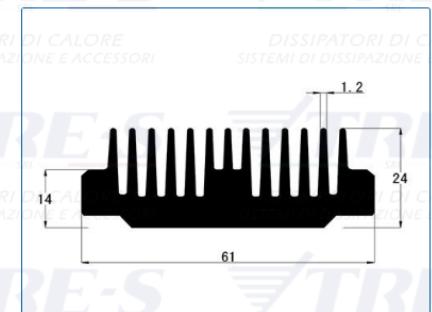
**PRO1073**

PESO: 1.71 kg/m



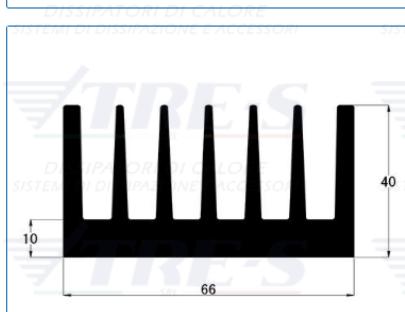
**PRO1295**

PESO: 3.74 kg/m



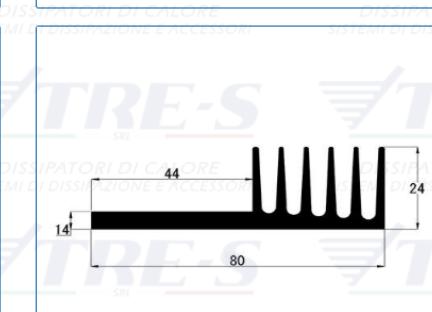
**PRO1028**

PESO: 2.23 kg/m



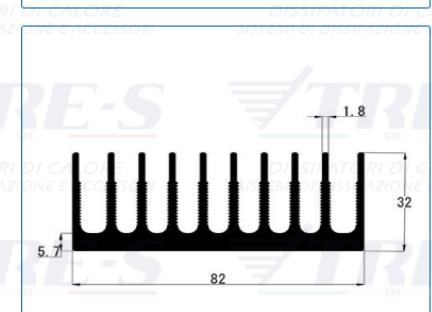
**PRO1075**

PESO: 3.47 kg/m



**PRO1022**

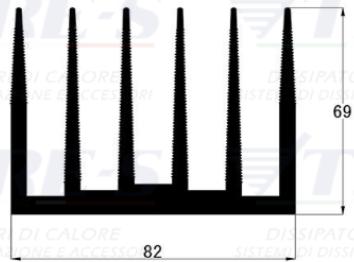
PESO: 1.79 kg/m



**PRO1032**

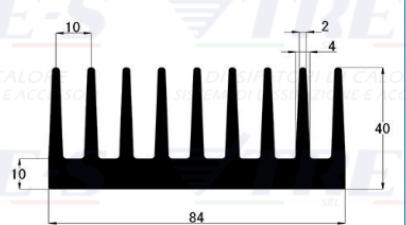
PESO: 2.87 kg/m

# HEATSINKS FOR POWER MODULES



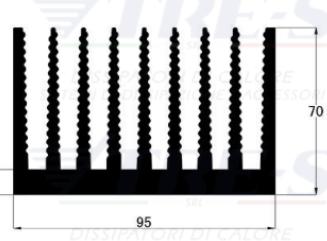
**PRO1076**

PESO: 4.95 kg/m



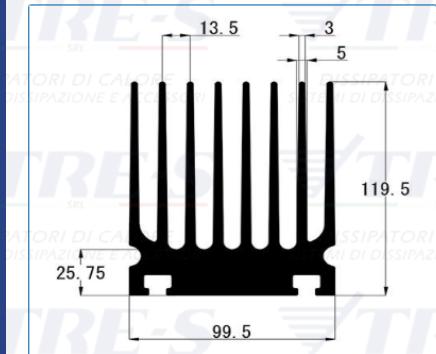
**PRO1077**

PESO: 4.43 kg/m



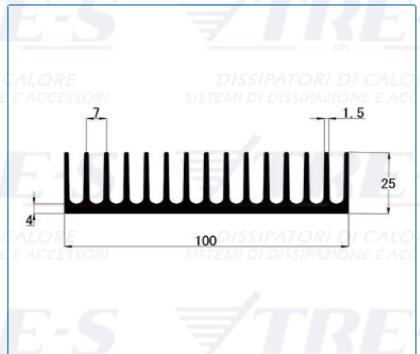
**PRO1280**

PESO: 4.95 kg/m



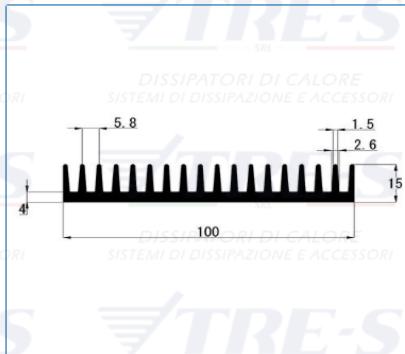
**PRO1042**

PESO: 14.44 kg/m



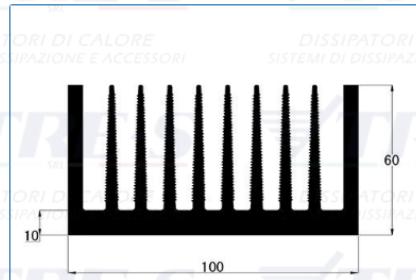
**PRO1084**

PESO: 2.68 kg/m



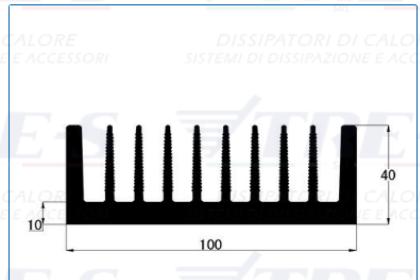
**PRO1083**

PESO: 2.16 kg/m



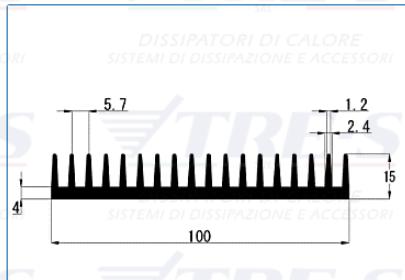
**PRO1040**

PESO: 7.48 kg/m



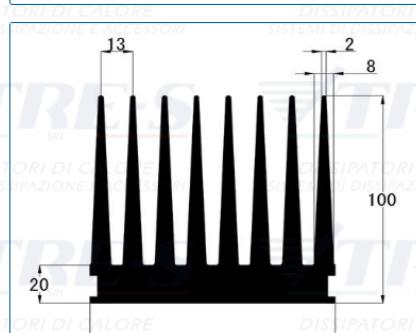
**PRO1031**

PESO: 5.02 kg/m



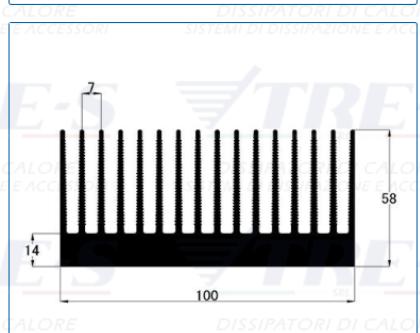
**PRO1082**

PESO: 2.02 kg/m



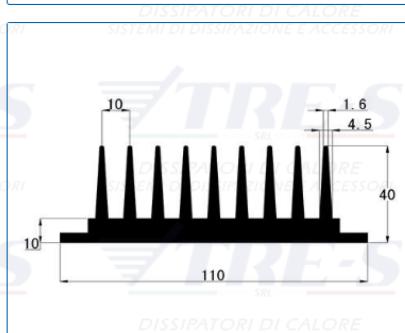
**PRO1259**

PESO: 13.88 kg/m



**PRO1287**

PESO: 7.67 kg/m



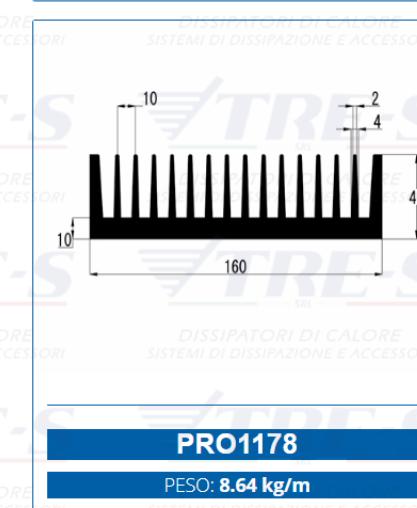
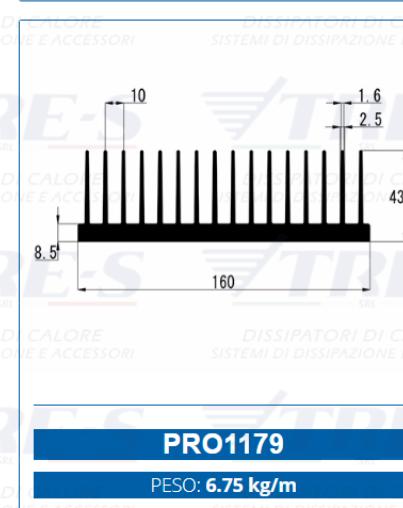
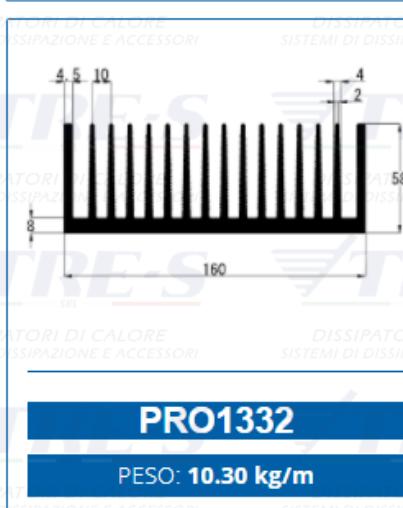
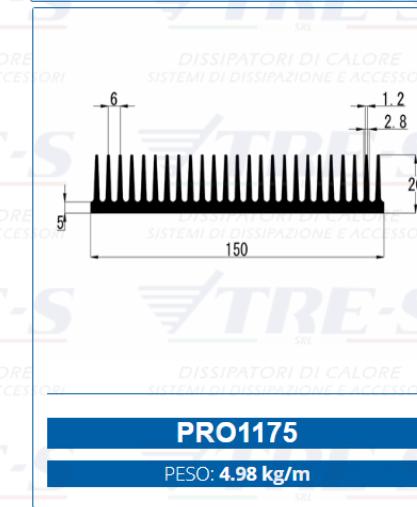
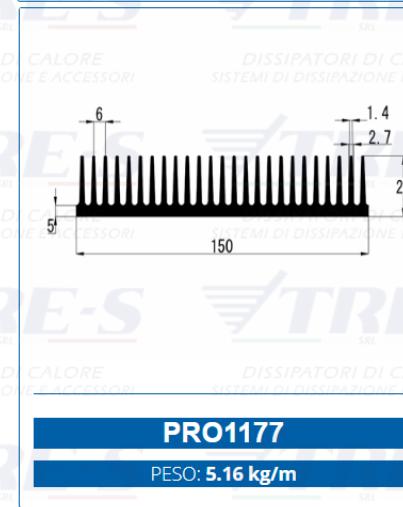
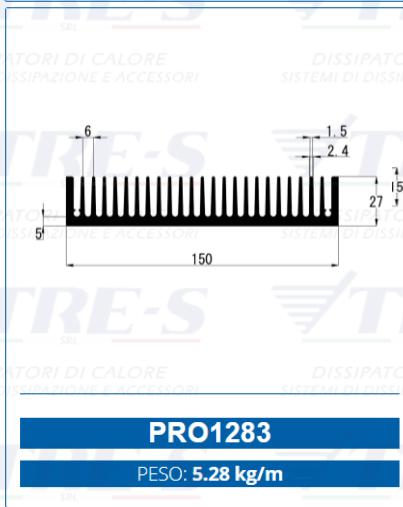
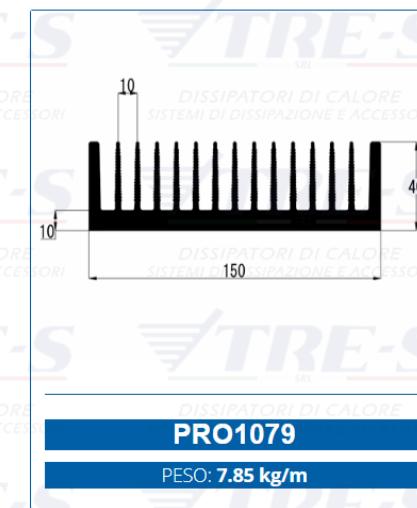
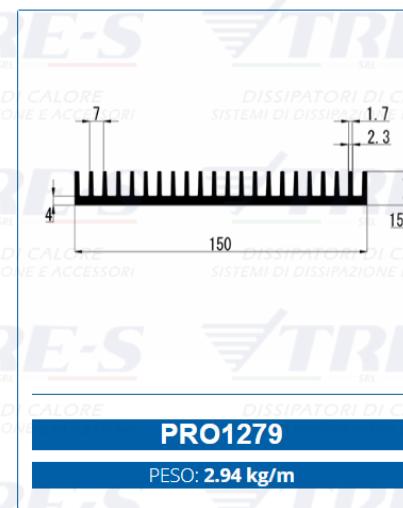
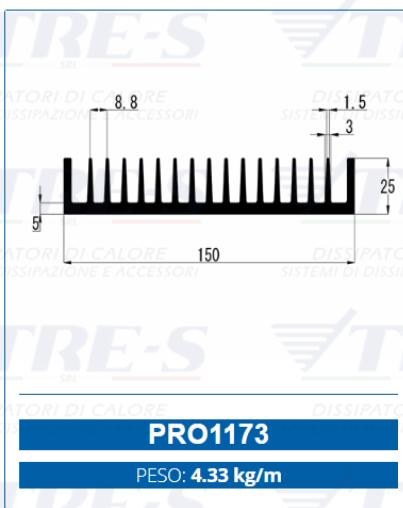
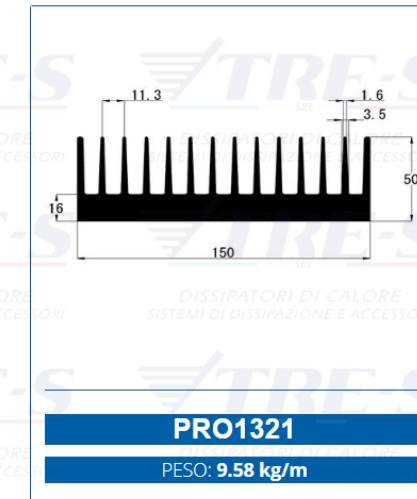
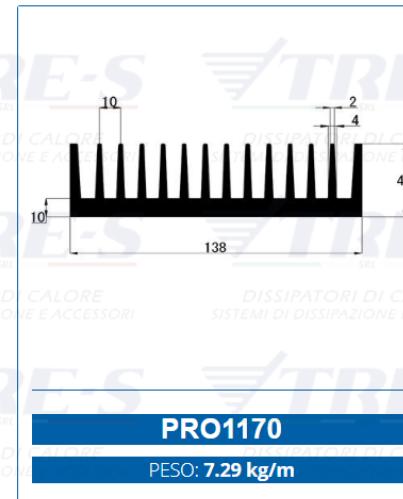
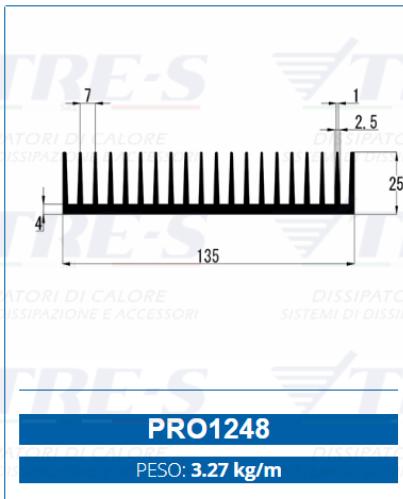
**PRO1266**

PESO: 4.95 kg/m

# HEATSINKS FOR POWER MODULES

<p><b>PRO1166</b> PESO: <b>8.66 kg/m</b></p>	<p><b>PRO1167</b> PESO: <b>9.59 kg/m</b></p>	<p><b>PRO1168</b> PESO: <b>3.57 kg/m</b></p>
<p><b>PRO1286</b> PESO: <b>3.95 kg/m</b></p>	<p><b>PRO1331</b> PESO: <b>5.91 kg/m</b></p>	<p><b>PRO1333</b> PESO: <b>6.31 kg/m</b></p>
<p><b>PRO1316</b> PESO: <b>8.83 kg/m</b></p>	<p><b>PRO1169</b> PESO: <b>6.63 kg/m</b></p>	<p><b>PRO1046</b> PESO: <b>7.48 kg/m</b></p>
<p><b>PRO1171</b> PESO: <b>2.22 kg/m</b></p>	<p><b>PRO1318</b> PESO: <b>9.77 kg/m</b></p>	<p><b>PRO1281</b> PESO: <b>3.27 kg/m</b></p>

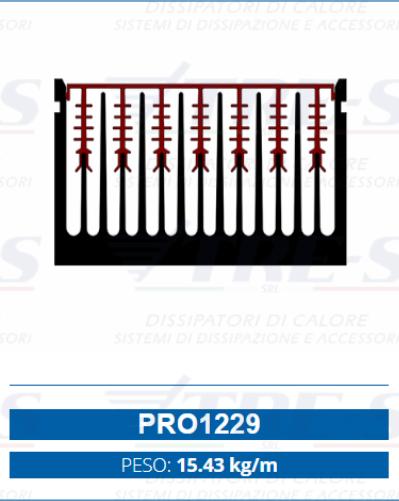
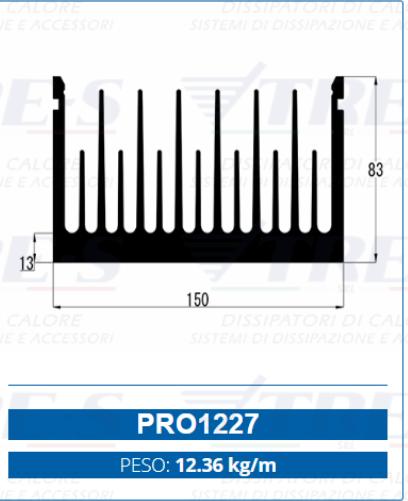
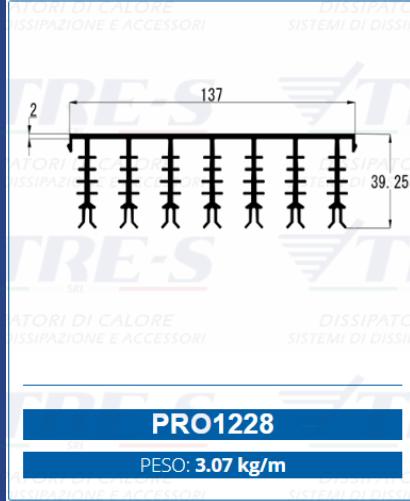
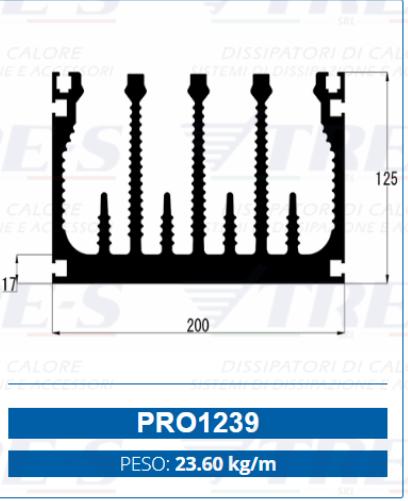
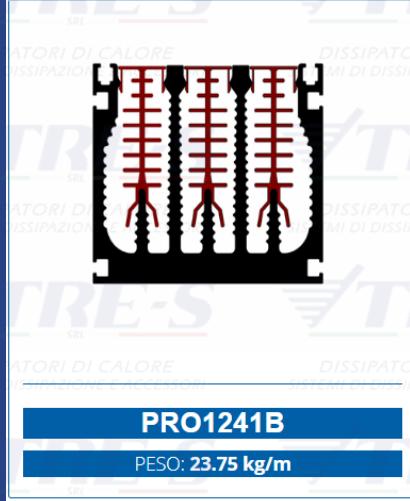
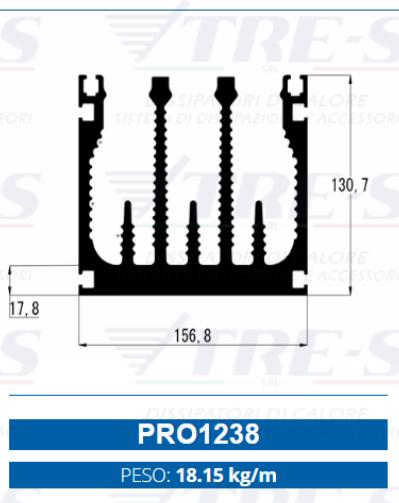
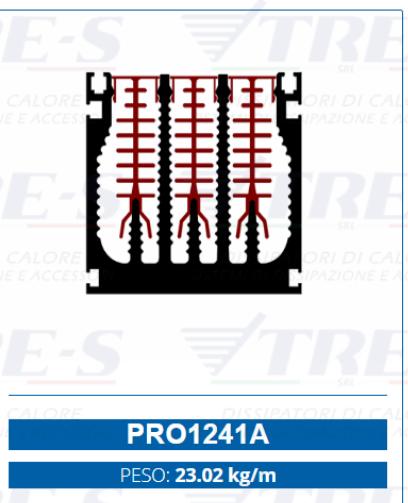
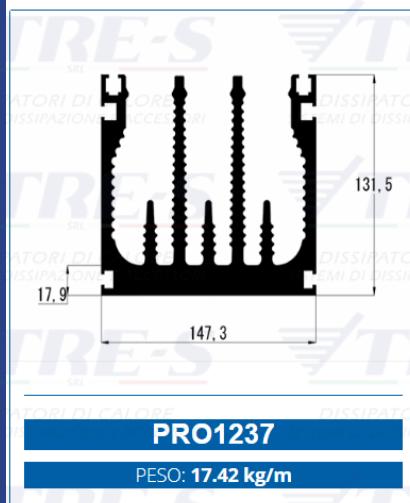
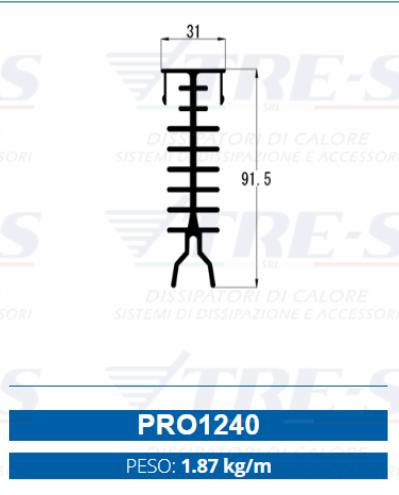
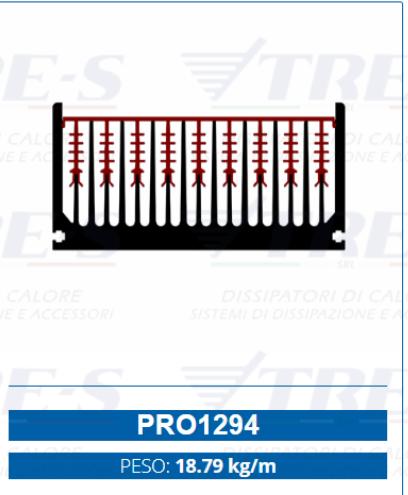
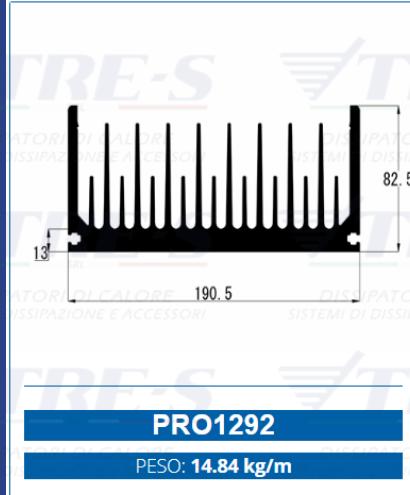
# HEATSINKS FOR POWER MODULES



# HEATSINKS FOR POWER MODULES

<p><b>PRO1233</b> PESO: <b>14.84 kg/m</b></p>	<p><b>PRO1236A</b> PESO: <b>18.79 kg/m</b></p>	<p><b>PRO1235</b> PESO: <b>17.52 kg/m</b></p>
<p><b>PRO1236B</b> PESO: <b>21.47 kg/m</b></p>	<p><b>PRO1230</b> PESO: <b>14.94 kg/m</b></p>	<p><b>PRO1232</b> PESO: <b>18.97 kg/m</b></p>
<p><b>PRO1149</b> PESO: <b>8.41 kg/m</b></p>	<p><b>PRO1181</b> PESO: <b>5.09 kg/m</b></p>	<p><b>PRO1183</b> PESO: <b>4.72 kg/m</b></p>
<p><b>PRO1186</b> PESO: <b>6.90 kg/m</b></p>	<p><b>PRO1187</b> PESO: <b>17.89 kg/m</b></p>	<p><b>PRO1293</b> PESO: <b>3.35 kg/m</b></p>

# HEATSINKS FOR POWER MODULES



# HEATSINKS FOR POWER MODULES



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



**PRO1188**

PESO: 5.09 kg/m



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

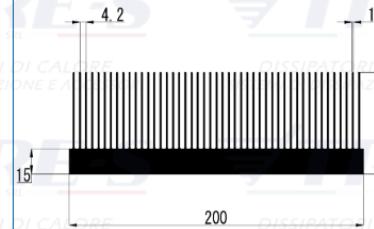


**PRO1189**

PESO: 5.49 kg/m



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

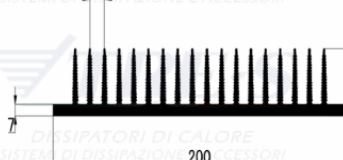


**PRO1325**

PESO: 13.88 kg/m



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

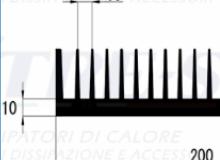


**PRO1310**

PESO: 7.81 kg/m



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

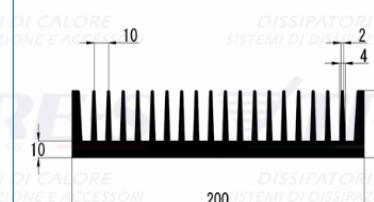


**PRO1196**

PESO: 10.83 kg/m



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

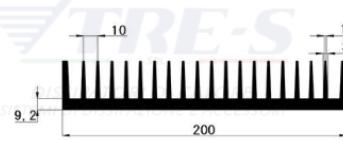


**PRO1195**

PESO: 10.68 kg/m



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



**PRO1194**

PESO: 9.25 kg/m



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

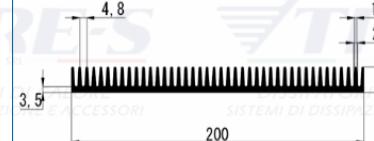


**PRO1193**

PESO: 5.38 kg/m



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

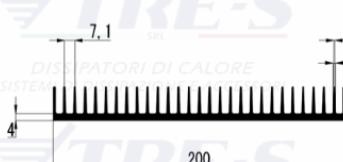


**PRO1085**

PESO: 4.73 kg/m



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



**PRO1269**

PESO: 4.11 kg/m



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

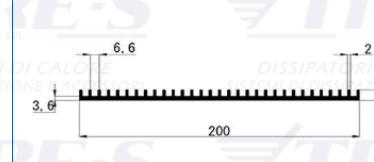


**PRO1191**

PESO: 3.90 kg/m



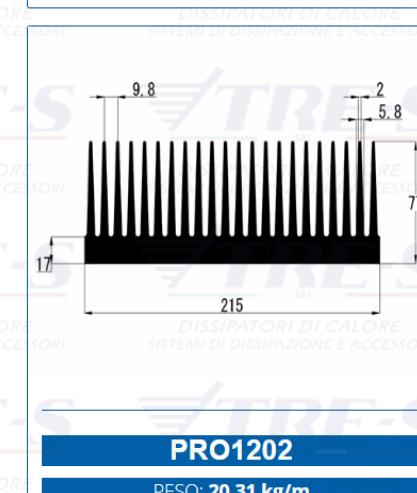
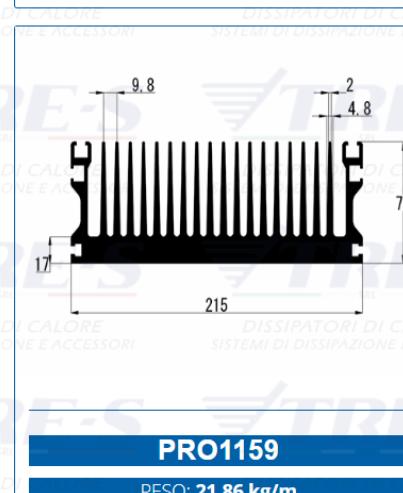
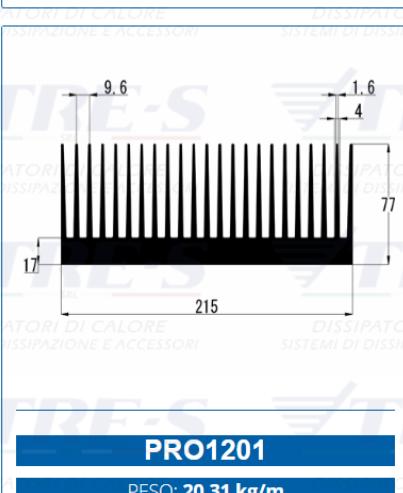
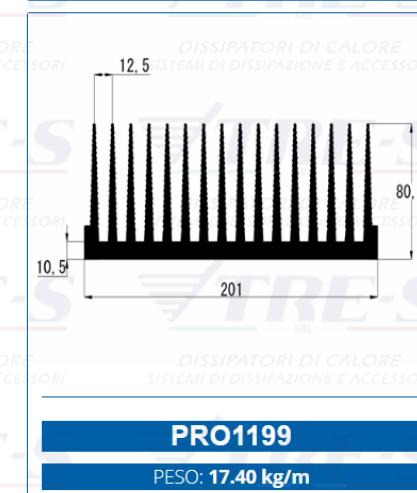
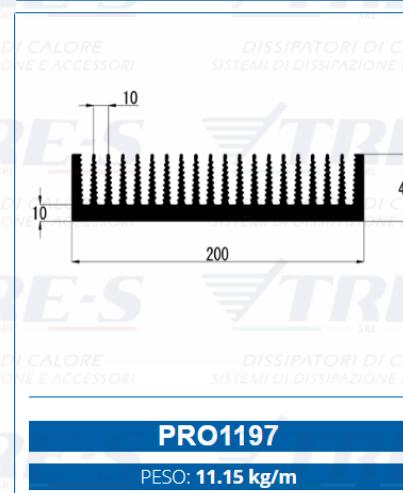
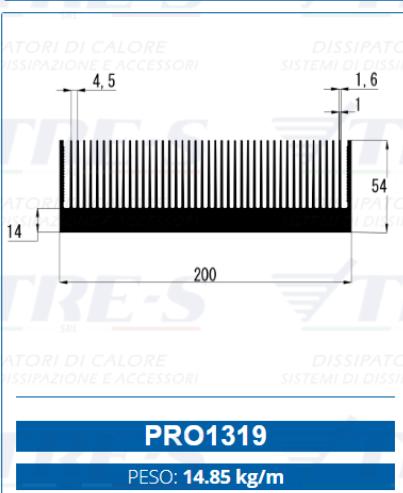
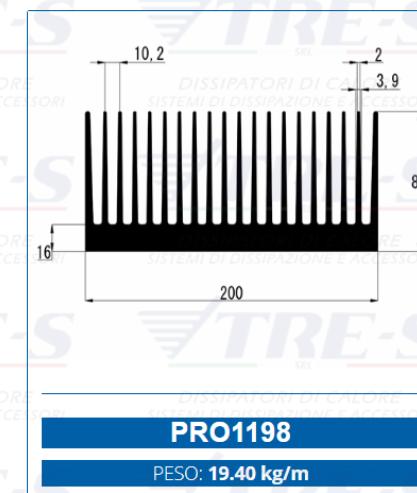
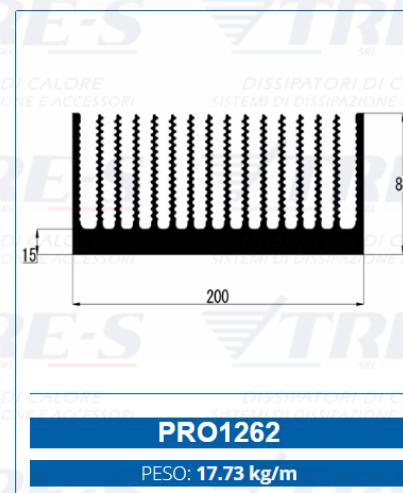
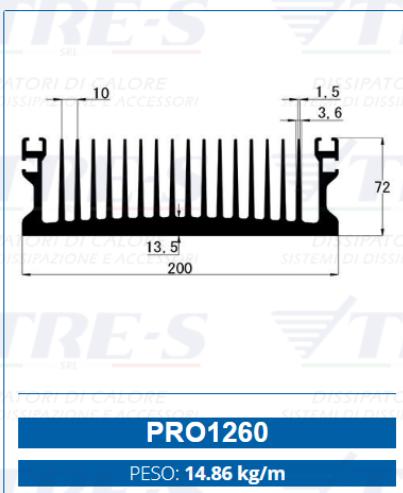
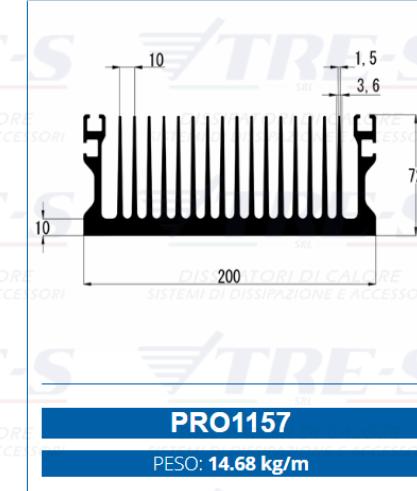
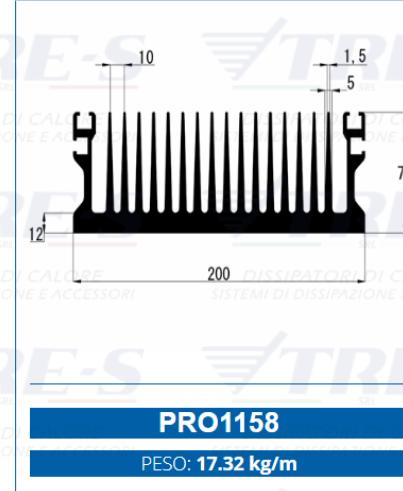
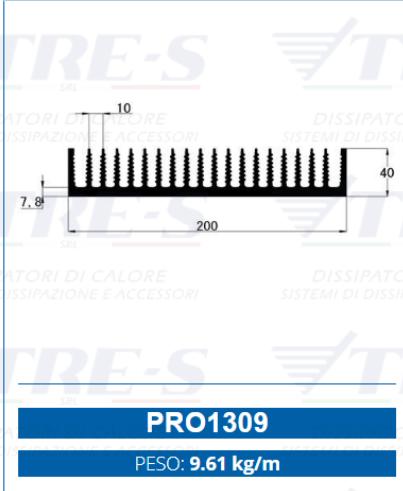
DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



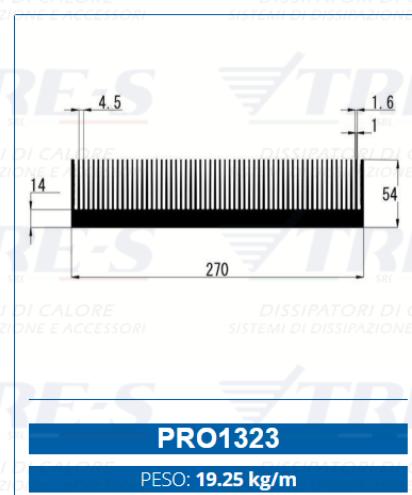
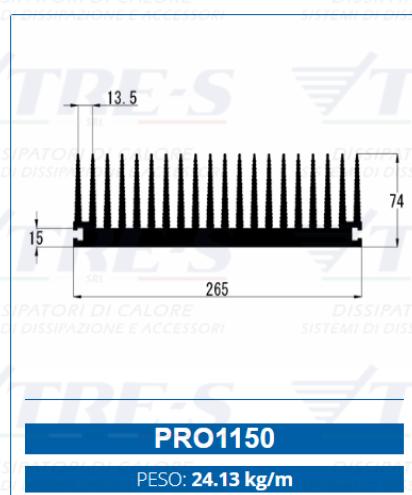
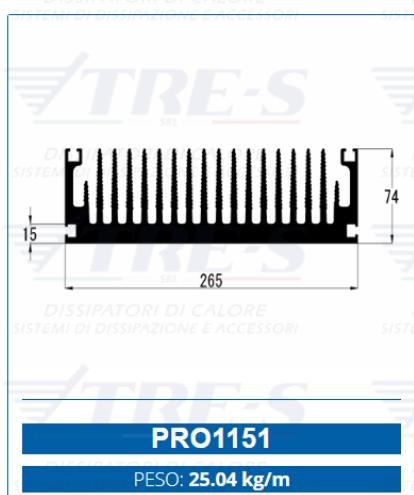
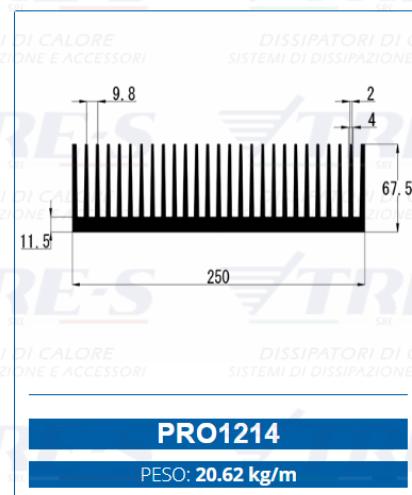
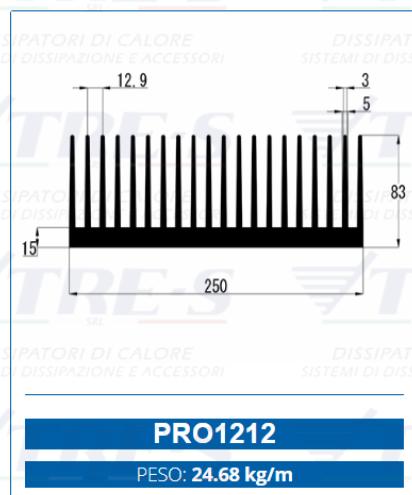
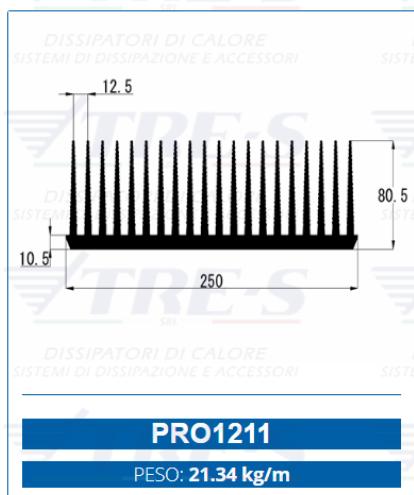
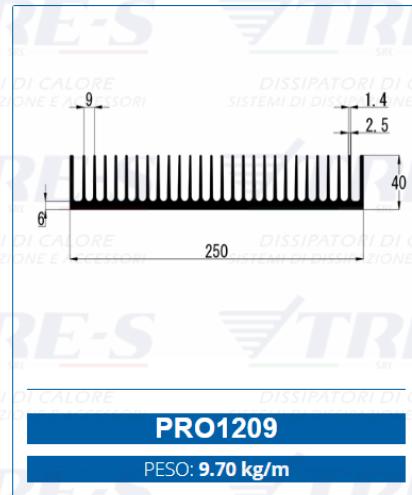
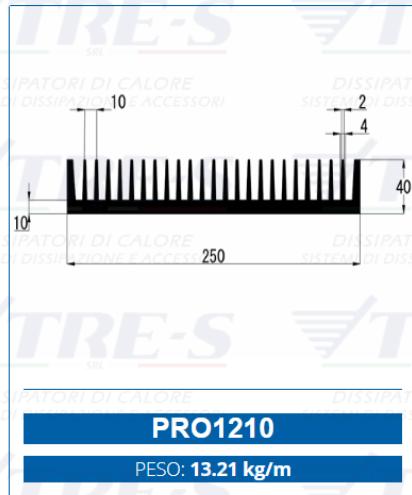
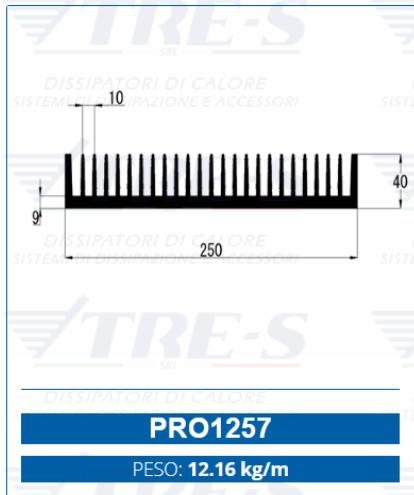
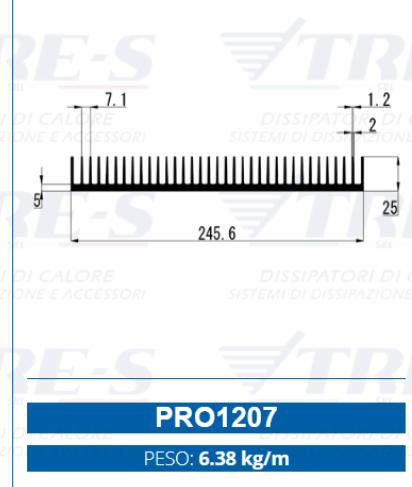
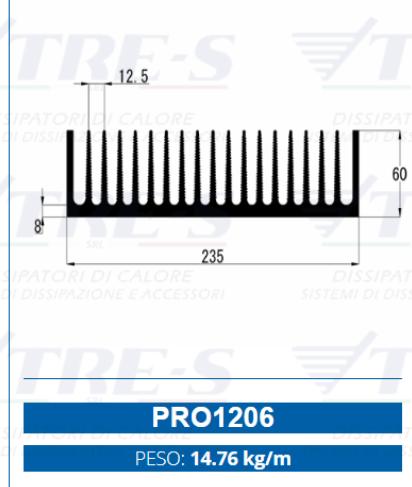
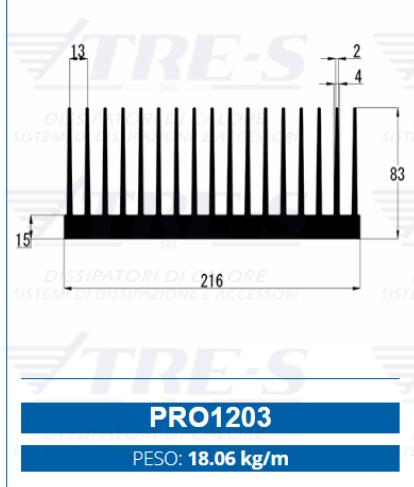
**PRO1282**

PESO: 2.81 kg/m

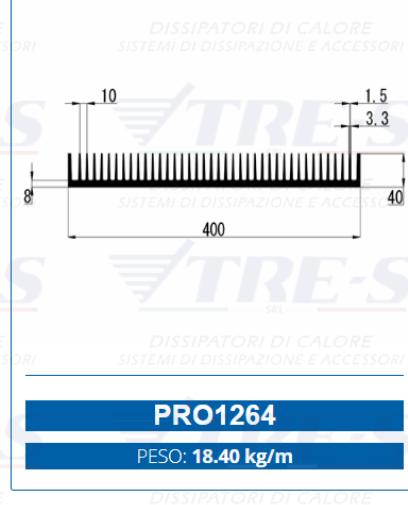
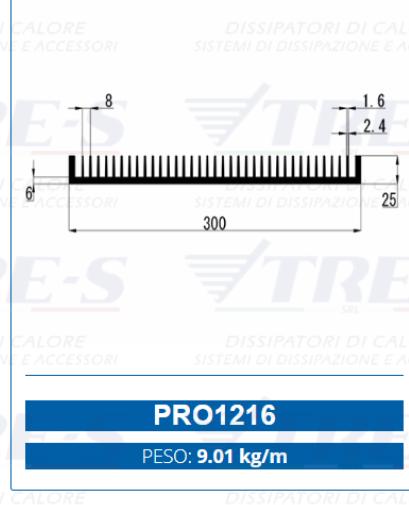
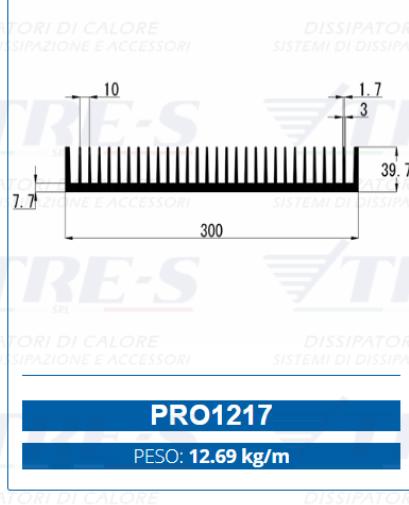
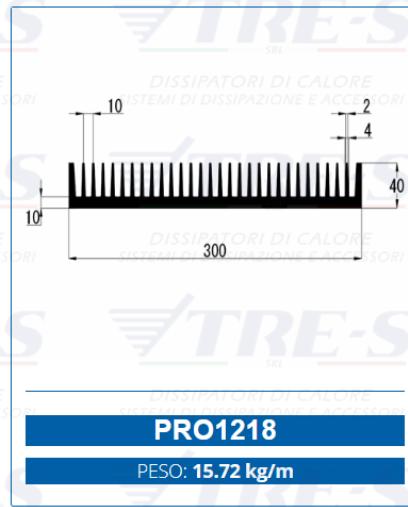
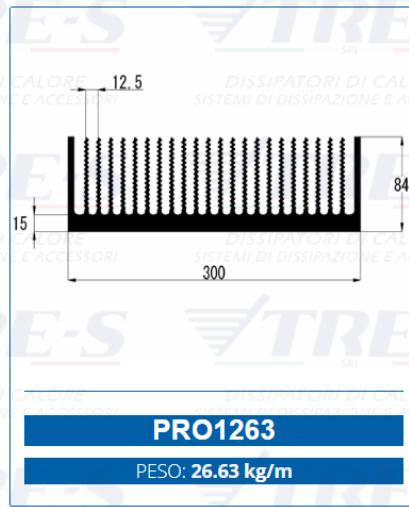
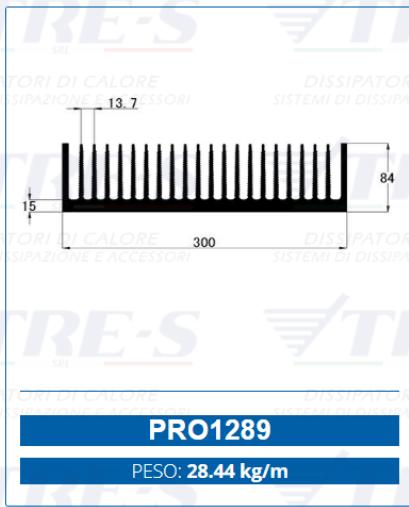
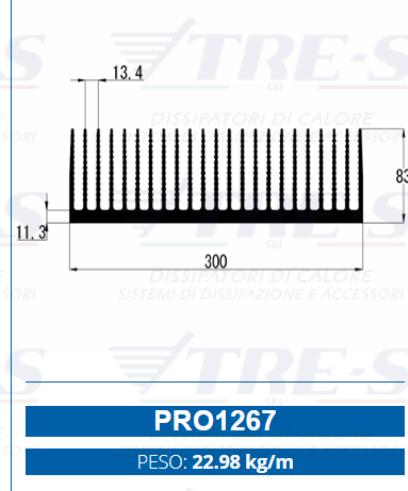
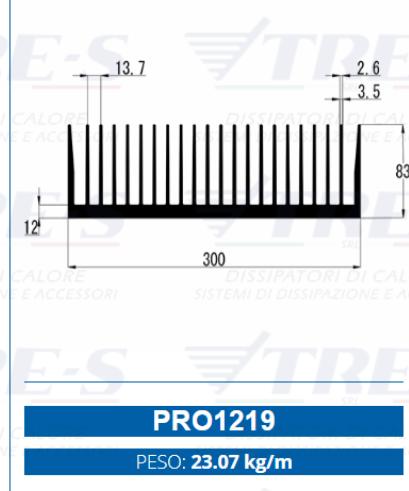
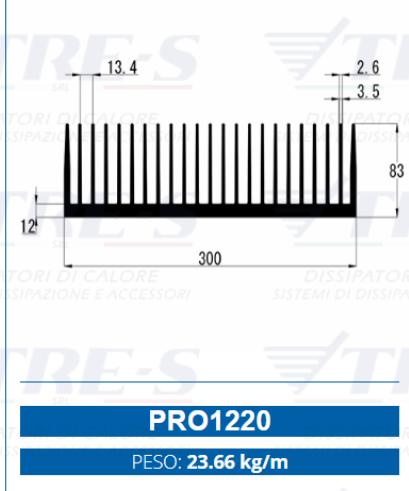
# HEATSINKS FOR POWER MODULES



# HEATSINKS FOR POWER MODULES



# HEATSINKS FOR POWER MODULES



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

# EMBEDDED HEATSINKS

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



**High-efficiency heat sinks are manufactured through interference fitting between modules. These high-efficiency heat sinks are constructed in order to reduce costs by channeling air and providing high performance in a compact space.**



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



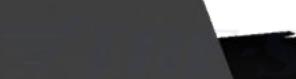
DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



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SISTEMI DI DISSIPAZIONE E ACCESSORI



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

## Application sectors:

- ✓ Welding industries
- ✓ Uninterruptible Power Supply (UPS) industries
- ✓ Automotive sector industries
- ✓ Traction and braking sector industries
- ✓ Renewable energy industries
- ✓ Electromedical sector industries

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

# EMBEDDED HEATSINKS

**PRI1040**

PESO: 0.29 kg/m

**PRI1041 AB**

**PRI1005**

PESO: 1.08 kg/m

**PRI1020 E PRI1021**

PESO: 1.52 kg/m

**PRI1006**

PESO: 0.63 kg/m

**PRI1014AB**

PESO: 0.61 kg/m

**PRI1022**

PESO: 0.57 kg/m

**PRI1026**

PESO: 0.67 kg/m

**PRI1028AB**

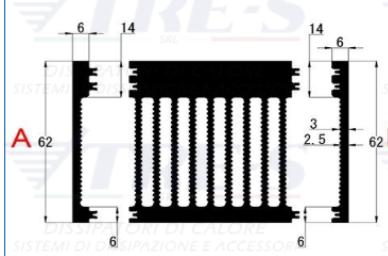
**PRI1029**

PESO: 0.51 kg/m

**PRI1001**

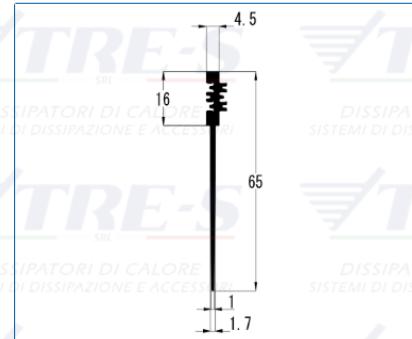
PESO: 0.44 kg/m

# EMBEDDED HEATSINKS



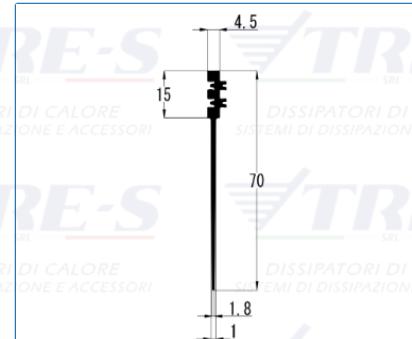
**PRI1007AB**

PESO: 0.44 kg/m



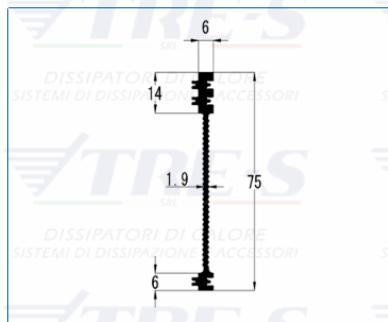
**PRI1032**

PESO: 0.77 kg/m



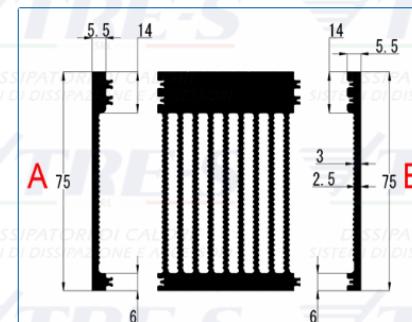
**PRI1030**

PESO: 0.39 kg/m



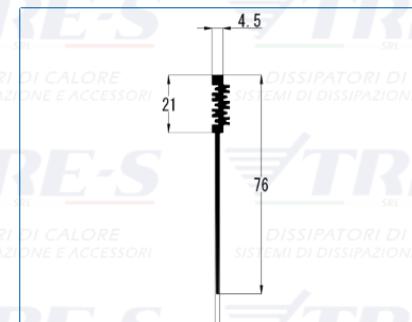
**PRI1016**

PESO: 0.51 kg/m



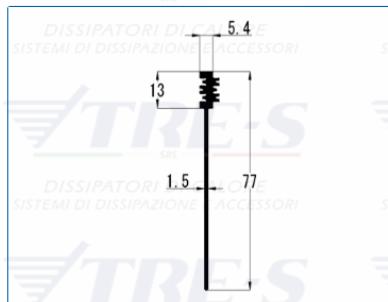
**PRI1017AB**

PESO: 0.45 kg/m



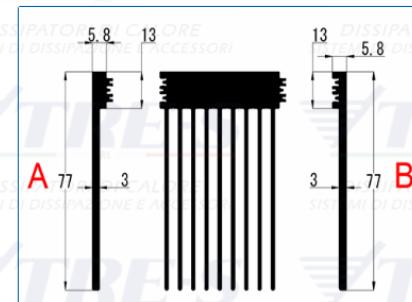
**PRI1027**

PESO: 0.47 kg/m



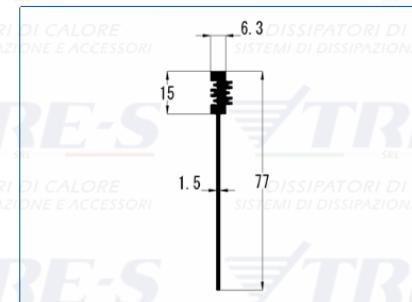
**PRI1035**

PESO: 0.44 kg/m



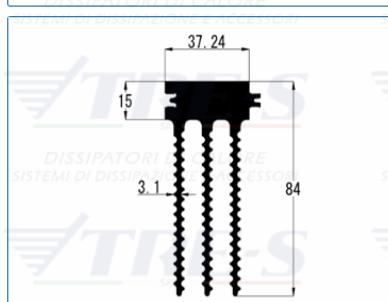
**PRI1036AB**

PESO: 0.64 kg/m



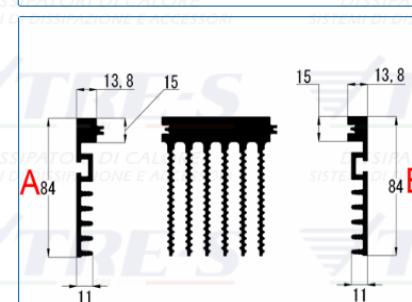
**PRI1034**

PESO: 0.50 kg/m



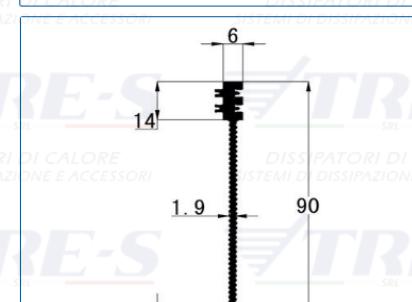
**PRI1018**

PESO: 3.16 kg/m



**PRI1019AB**

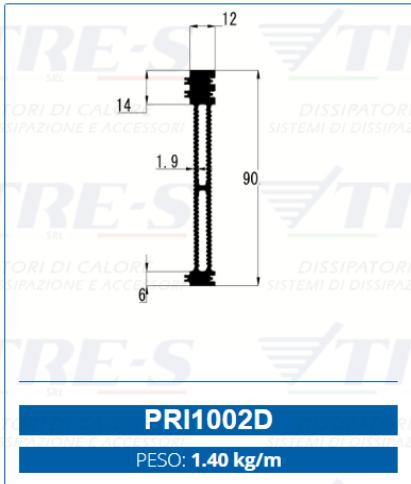
PESO: 1.52 kg/m



**PRI1002**

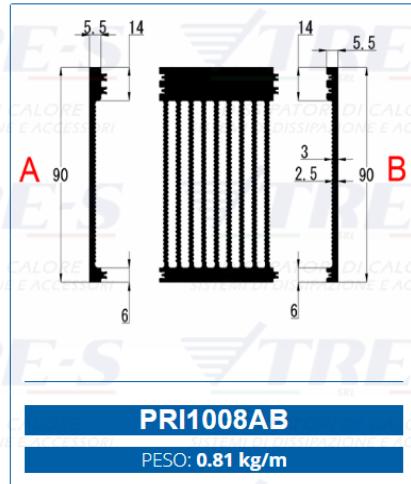
PESO: 0.68 kg/m

# EMBEDDED HEATSINKS



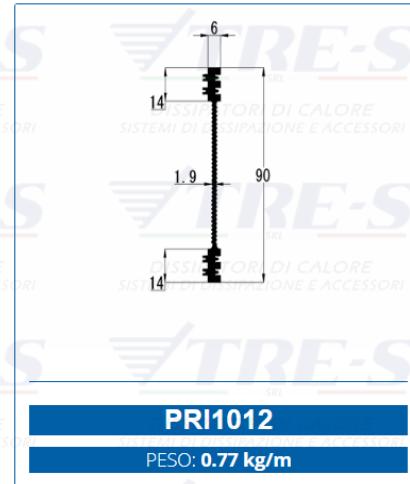
**PRI1002D**

PESO: 1.40 kg/m



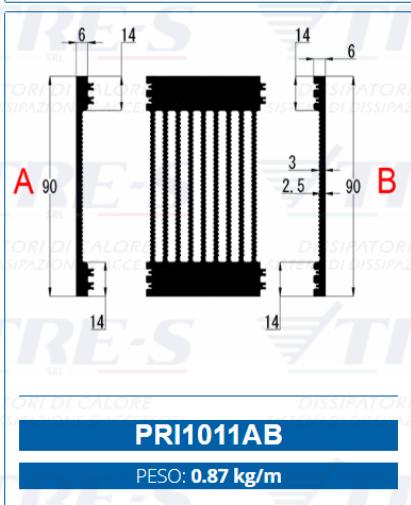
**PRI1008AB**

PESO: 0.81 kg/m



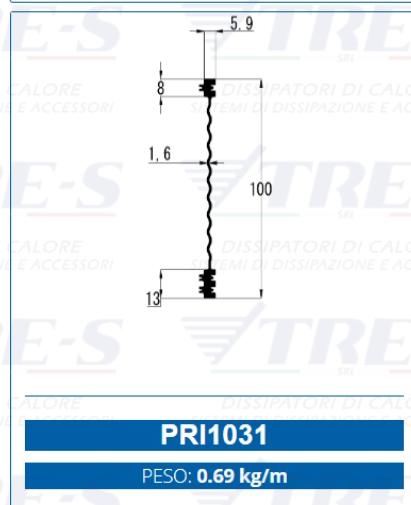
**PRI1012**

PESO: 0.77 kg/m



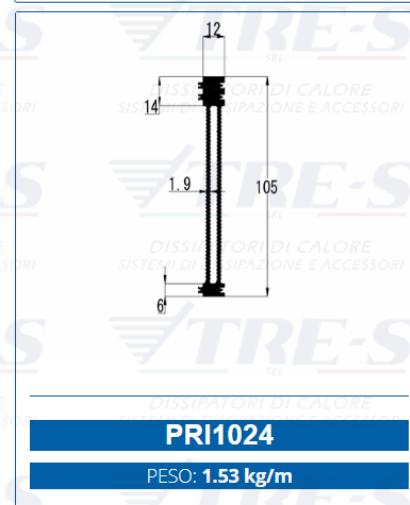
**PRI1011AB**

PESO: 0.87 kg/m



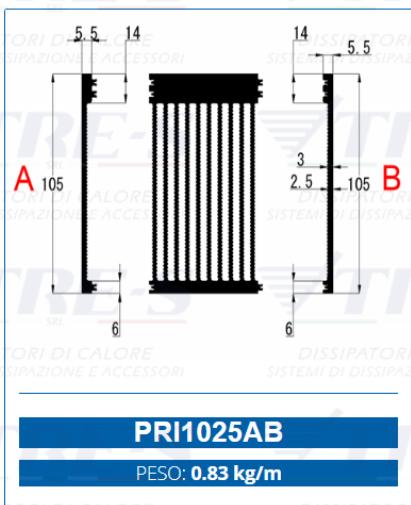
**PRI1031**

PESO: 0.69 kg/m



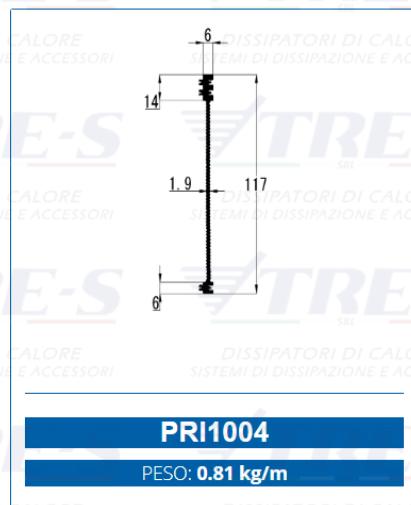
**PRI1024**

PESO: 1.53 kg/m



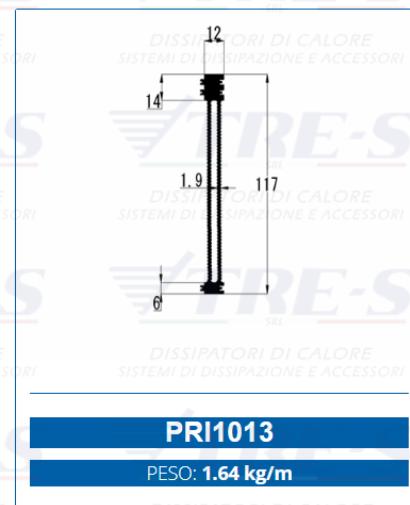
**PRI1025AB**

PESO: 0.83 kg/m



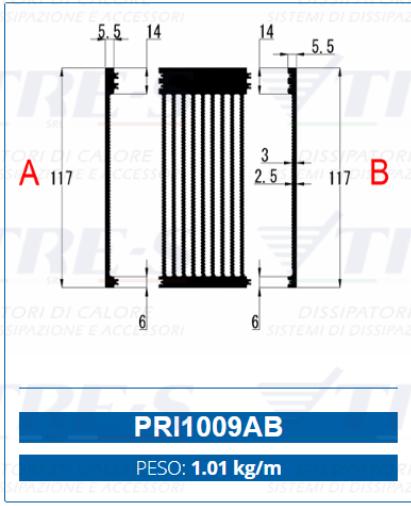
**PRI1004**

PESO: 0.81 kg/m



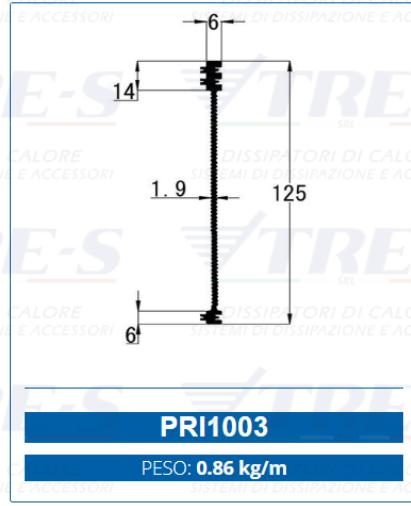
**PRI1013**

PESO: 1.64 kg/m



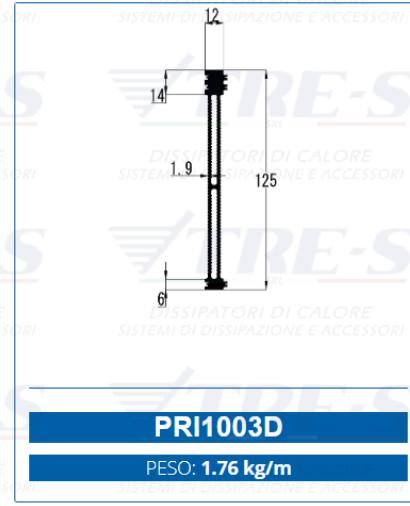
**PRI1009AB**

PESO: 1.01 kg/m



**PRI1003**

PESO: 0.86 kg/m



**PRI1003D**

PESO: 1.76 kg/m



# PROFILES FOR DISK CELLS

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

**High-power dissipators, often used with clamps, for large-scale applications.**

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

## Application sectors:

✓ **Uninterruptible Power Supply (UPS) industries**

✓ **Automotive sector industries**

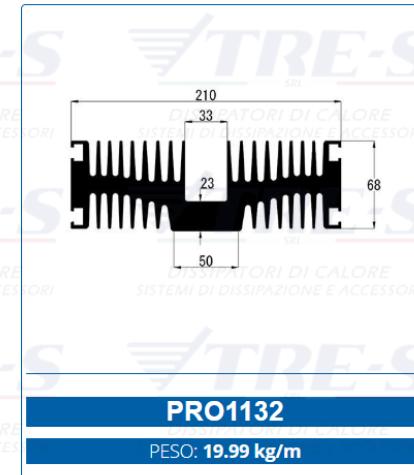
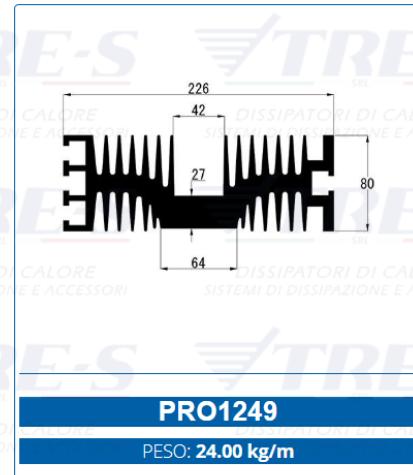
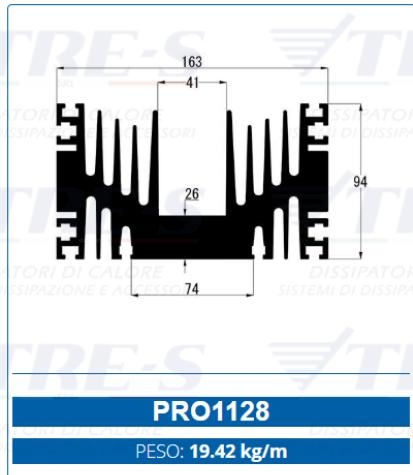
✓ **Traction and braking sector industries**

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

# PROFILES FOR DISK CELLS

<p><b>PRO1139</b></p> <p>PESO: 8.86 kg/m</p>	<p><b>PRO1140</b></p> <p>PESO: 10.15 kg/m</p>	<p><b>PRO1141</b></p> <p>PESO: 11.58 kg/m</p>
<p><b>PRO1072</b></p> <p>PESO: 5.95 kg/m</p>	<p><b>PRO1142</b></p> <p>PESO: 12.78 kg/m</p>	<p><b>PRO1143</b></p> <p>PESO: 19.21 kg/m</p>
<p><b>PRO1144</b></p> <p>PESO: 25.25 kg/m</p>	<p><b>PRO1145</b></p> <p>PESO: 26.09 kg/m</p>	<p><b>PRO1146</b></p> <p>PESO: 29.73 kg/m</p>
<p><b>PRO1138</b></p> <p>PESO: 14.86 kg/m</p>	<p><b>PRO1126</b></p> <p>PESO: 10.91 kg/m</p>	<p><b>PRO1127</b></p> <p>PESO: 10.03 kg/m</p>

# PROFILES FOR DISK CELLS



**PRO1128**

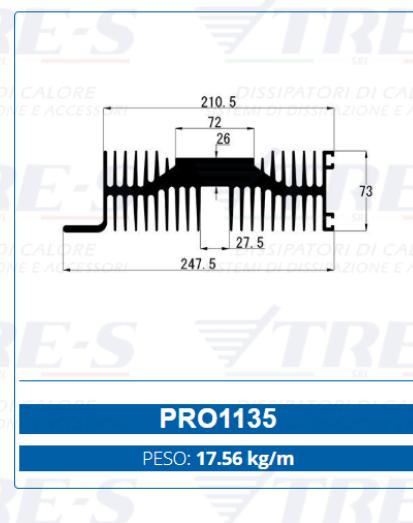
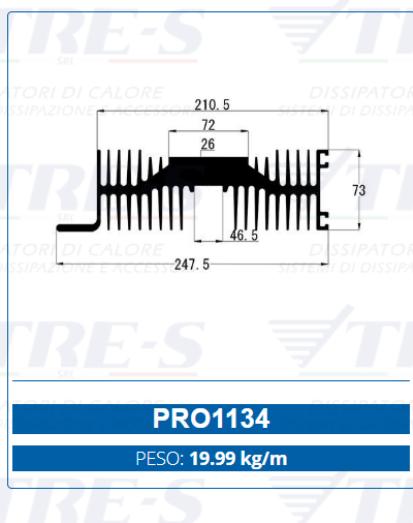
PESO: **19.42 kg/m**

**PRO1249**

PESO: **24.00 kg/m**

**PRO1132**

PESO: **19.99 kg/m**



**PRO1134**

PESO: **19.99 kg/m**

**PRO1135**

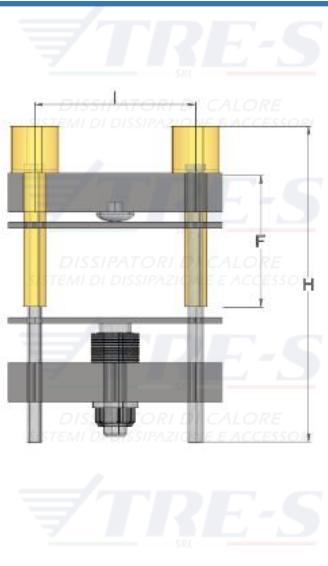
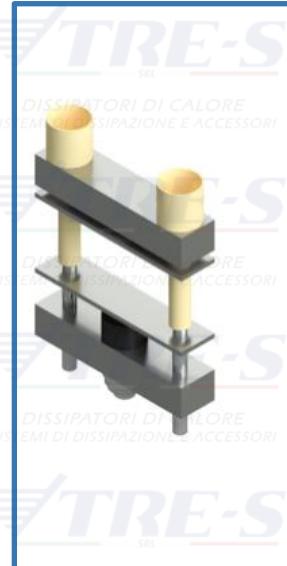
PESO: **17.56 kg/m**





# CLAMPS-SYSTEMS: TIPE A

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



Codice	KN MAX	I	F	H
KL70A/30	13	70	30	105
KL70A/40	13	70	40	115
KL70A/50	13	70	50	125
KL70A/60	13	70	60	135
KL70A/70	13	70	70	145
KL70A/80	13	70	80	155
KL70A/90	13	70	90	165
KL70A/100	13	70	100	175
KL70A/110	13	70	110	185

Codice	KN MAX	I	F	H
KL79A/30	20	79	30	108
KL79A/40	20	79	50	128
KL79A/60	20	79	60	138
KL79A/70	20	79	70	148
KL79A/80	20	79	80	158
KL79A/90	20	79	90	168
KL79A/100	20	79	100	178
KL79A/110	20	79	110	188

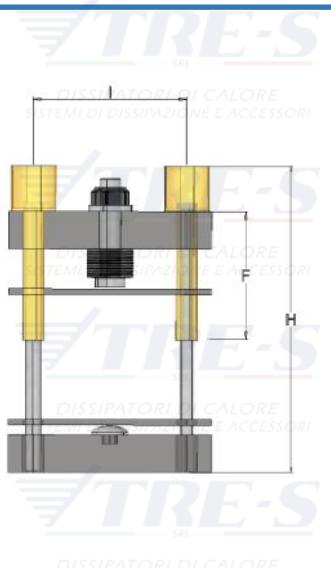
Codice	KN MAX	I	F	H
KL89A/30	25	89	30	109
KL89A/40	25	89	40	119
KL89A/50	25	89	50	129
KL89A/60	25	89	60	139
KL89A/70	25	89	70	149
KL89A/80	25	89	80	159
KL89A/90	25	89	90	169
KL89A/100	25	89	100	179
KL89A/110	25	89	110	189

Codice	KN MAX	I	F	H
KL102A/30	30	102	30	125
KL102A/40	30	102	40	135
KL102A/50	30	102	50	145
KL102A/60	30	102	60	155
KL102A/70	30	102	70	165
KL102A/80	30	102	80	175
KL102A/90	30	102	90	185
KL102A/100	30	102	100	195
KL102A/110	30	102	110	205

Codice	KN MAX	I	F	H
KL140A/30	50	140	30	180
KL140A/40	50	140	40	190
KL140A/50	50	140	50	200
KL140A/60	50	140	60	210
KL140A/70	50	140	70	220
KL140A/80	50	140	80	230
KL140A/90	50	140	90	240
KL140A/100	50	140	100	250
KL140A/110	50	140	110	260

# CLAMPS-SYSTEMS: TIPE B

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



Codice	KN MAX	I	F	H
KL70B/30	13	70	30	107
KL70B/40	13	70	40	117
KL70B/50	13	70	50	127
KL70B/60	13	70	60	137
KL70B/70	13	70	70	147
KL70B/80	13	70	80	157
KL70B/90	13	70	90	167
KL70B/100	13	70	100	177
KL70B/110	13	70	110	187

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

Codice	KN MAX	I	F	H
KL89B/30	25	89	30	109
KL89B/40	25	89	40	119
KL89B/50	25	89	50	129
KL89B/60	25	89	60	139
KL89B/70	25	89	70	149
KL89B/80	25	89	80	159
KL89B/90	25	89	90	169
KL89B/100	25	89	100	179
KL89B/110	25	89	110	189

Codice	KN MAX	I	F	H
KL79B/30	20	79	30	108
KL79B/40	20	79	40	118
KL79B/50	20	79	50	128
KL79B/60	20	79	60	138
KL79B/70	20	79	70	148
KL79B/80	20	79	80	158
KL79B/90	20	79	90	168
KL79B/100	20	79	100	178
KL79B/110	20	79	110	188

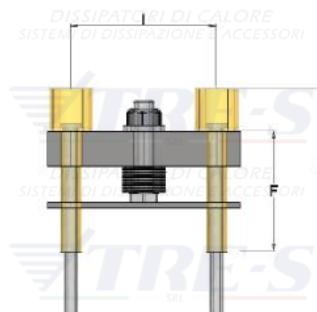
DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

Codice	KN MAX	I	F	H
KL118B/30	40	118	30	136
KL118B/40	40	118	40	146
KL118B/50	40	118	50	156
KL118B/60	40	118	60	166
KL118B/70	40	118	70	176
KL118B/80	40	118	80	186
KL118B/90	40	118	90	196
KL118B/100	40	118	100	206
KL118B/110	40	118	110	216

Codice	KN MAX	I	F	H
KL102B/30	30	102	30	125
KL102B/40	30	102	40	135
KL102B/50	30	102	50	145
KL102B/60	30	102	60	155
KL102B/70	30	102	70	165
KL102B/80	30	102	80	175
KL102B/90	30	102	90	185
KL102B/100	30	102	100	195
KL102B/110	30	102	110	205

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

*DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI*



Codice	KN MAX	I	F	H
KL70C/30	13	70	30	107
KL70C/40	13	70	40	117
KL70C/50	13	70	50	127
KL70C/60	13	70	60	137
KL70C/70	13	70	70	147
KL70C/80	13	70	80	157
KL70C/90	13	70	90	167
KL70C/100	13	70	100	177
KL70C/110	13	70	110	187

#### SISTEMI DI DISSIPAZIONE E ACCESSORI

#### SISTEMI DI DISSIPAZIONE E ACCESSORI

Codice	KN MAX	I	F	H
KL79C/30	20	79	30	108
KL79C/40	20	79	40	118
KL79C/50	20	79	50	128
KL79C/60	20	79	60	138
KL79C/70	20	79	70	148
KL79C/80	20	79	80	158
KL79C/90	20	79	90	168
KL79C/100	20	79	100	178
KL79C/110	20	79	110	188

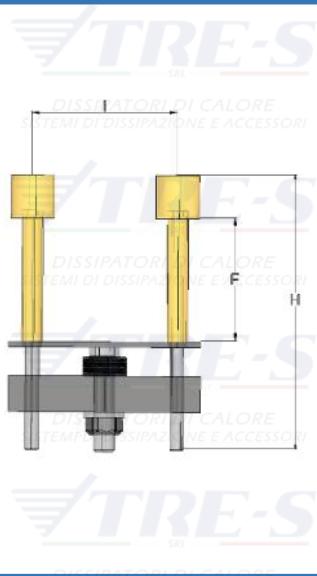
Codice	KN MAX	I	F	H
KL89C/30	25	89	30	109
KL89C/40	25	89	40	119
KL89C/50	25	89	50	129
KL89C/60	25	89	60	139
KL89C/70	25	89	70	149
KL89C/80	25	89	80	159
KL89C/90	25	89	90	169
KL89C/100	25	89	100	179
KL89C/110	25	89	110	189

Codice	KN MAX	I	F	H
KL102C/30	30	102	30	125
KL102C/40	30	102	40	135
KL102C/50	30	102	50	145
KL102C/60	30	102	60	155
KL102C/70	30	102	70	165
KL102C/80	30	102	80	175
KL102C/90	30	102	90	185
KL102C/100	30	102	100	195
KL102C/110	30	102	110	205

Codice	KN MAX	I	F	H
KL118C/30	40	118	30	136
KL118C/40	40	118	40	146
KL118C/50	40	118	50	156
KL118C/60	40	118	60	166
KL118C/70	40	118	70	176
KL118C/80	40	118	80	186
KL118C/90	40	118	90	196
KL118C/100	40	118	100	206
KL118C/110	40	118	110	216

# CLAMPS-SYSTEMS: TIPE DRE-S

DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI



Codice	KN MAX	I	F	H
KL70C/30	13	70	30	107
KL70C/40	13	70	40	117
KL70C/50	13	70	50	127
KL70C/60	13	70	60	137
KL70C/70	13	70	70	147
KL70C/80	13	70	80	157
KL70C/90	13	70	90	167
KL70C/100	13	70	100	177
KL70C/110	13	70	110	187

SISTEMI DI DISSIPAZIONE E ACCESSORI

SISTEMI DI DISSIPAZIONE E ACCESSORI

SISTEMI DI DISSIPAZIONE E ACCESSORI

Codice	KN MAX	I	F	H
KL79C/30	20	79	30	108
KL79C/40	20	79	40	118
KL79C/50	20	79	50	128
KL79C/60	20	79	60	138
KL79C/70	20	79	70	148
KL79C/80	20	79	80	158
KL79C/90	20	79	90	168
KL79C/100	20	79	100	178
KL79C/110	20	79	110	188

Codice	KN MAX	I	F	H
KL89C/30	25	89	30	109
KL89C/40	25	89	40	119
KL89C/50	25	89	50	129
KL89C/60	25	89	60	139
KL89C/70	25	89	70	149
KL89C/80	25	89	80	159
KL89C/90	25	89	90	169
KL89C/100	25	89	100	179
KL89C/110	25	89	110	189

SISTEMI DI DISSIPAZIONE E ACCESSORI

SISTEMI DI DISSIPAZIONE E ACCESSORI

SISTEMI DI DISSIPAZIONE E ACCESSORI

Codice	KN MAX	I	F	H
KL102C/30	30	102	30	125
KL102C/40	30	102	40	135
KL102C/50	30	102	50	145
KL102C/60	30	102	60	155
KL102C/70	30	102	70	165
KL102C/80	30	102	80	175
KL102C/90	30	102	90	185
KL102C/100	30	102	100	195
KL102C/110	30	102	110	205

Codice	KN MAX	I	F	H
KL118C/30	40	118	30	136
KL118C/40	40	118	40	146
KL118C/50	40	118	50	156
KL118C/60	40	118	60	166
KL118C/70	40	118	70	176
KL118C/80	40	118	80	186
KL118C/90	40	118	90	196
KL118C/100	40	118	100	206
KL118C/110	40	118	110	216

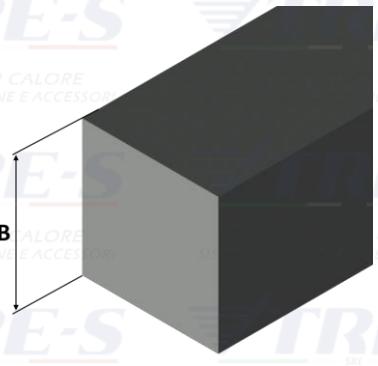
SISTEMI DI DISSIPAZIONE E ACCESSORI

SISTEMI DI DISSIPAZIONE E ACCESSORI

SISTEMI DI DISSIPAZIONE E ACCESSORI

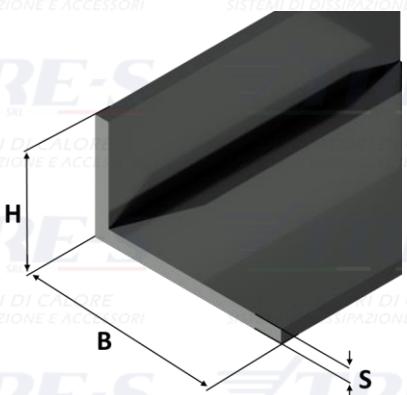


Lega	BxS Dimensione	Peso al metro									
6060	10x2	0,054	6060	40x20	2,16	6082	70x30	5,67	2011	100x60	16,2
6060	10x3	0,081	6082	40x20	2,16	6082	70x35	6,62	6082	100x60	16,2
6060	10x4	0,108	2011	40x25	2,7	2011	70x40	7,56	6082	100x70	18,9
6060	10x5	0,135	6082	40x25	2,7	6082	70x40	7,56	2011	100x80	21,6
6060	15x2	0,081	2011	40x30	3,24	2011	70x50	9,45	6082	100x80	21,6
6060	15x3	0,121	6082	40x30	3,24	6082	70x50	9,45	6060	120x5	1,62
6060	15x4	0,162	6060	45x10	1,215	6082	70x60	11,34	6060	120x6	1,944
6060	15x5	0,203	6060	45x15	1,822	6060	80x2	0,432	6060	120x8	2,592
6060	15x8	0,328	6060	50x2	0,27	6060	80x3	0,648	6060	120x10	3,24
6060	15x10	0,405	6060	50x3	0,405	6060	80x4	0,864	6082	120x10	3,24
6060	20x2	0,108	6060	50x4	0,54	6060	80x5	1,08	6060	120x12	3,888
6060	20x3	0,162	6060	50x5	0,675	6060	80x6	1,296	6060	120x15	4,86
6060	20x4	0,216	6060	50x6	0,81	6060	80x8	1,728	6082	120x15	4,86
6060	20x5	0,27	6060	50x8	1,08	6060	80x10	2,16	6060	120x20	6,48
6060	20x6	0,324	6060	50x10	1,35	6082	80x10	2,16	6082	120x20	6,48
6060	20x8	0,432	6082	50x10	1,35	6060	80x12	2,592	6082	120x25	8,1
6060	20x10	0,54	6060	50x12	1,62	6060	80x15	3,24	6082	120x30	9,72
6082	20x10	0,54	6060	50x15	2,025	6082	80x15	3,24	2011	120x40	12,96
6060	20x12	0,648	6082	50x15	2,025	2011	80x20	4,32	6082	120x40	12,96
6060	20x15	0,815	2011	50x20	2,7	6060	80x20	4,32	2011	120x50	16,2
6082	20x15	0,815	6060	50x20	2,7	6082	80x20	4,32	6082	120x50	16,2
6060	25x2	0,135	6082	50x20	2,7	6082	80x25	5,4	2011	120x60	19,44
6060	25x3	0,203	2011	50x25	3,38	2011	80x30	6,48	6082	120x60	19,44
6060	25x4	0,27	6082	50x25	3,38	6082	80x30	6,48	6082	120x80	25,92
6060	25x5	0,338	2011	50x30	4,05	2011	80x40	8,64	6082	120x90	29,16
6060	25x6	0,405	6082	50x30	4,05	6082	80x40	8,64	6060	150x5	2,025
6060	25x8	0,54	2011	50x35	4,725	2011	80x50	10,8	6060	150x6	2,43
6060	25x10	0,675	6082	50x35	4,725	6082	80x50	10,8	6060	150x8	3,24
6082	25x10	0,675	2011	50x40	5,4	2011	80x60	12,96	6060	150x10	4,05
6060	25x12	0,81	6082	50x40	5,4	6082	80x60	12,96	6060	150x12	4,86
6060	25x15	1,013	6060	60x2	0,324	6060	90x5	1,215	6060	150x15	6,075
6082	25x15	1,013	6060	60x3	0,486	6060	90x8	1,944	6082	150x15	6,075
6082	25x20	1,35	6060	60x4	0,648	6060	90x10	2,43	6060	150x20	8,1
6060	30x2	0,162	6060	60x5	0,81	6060	90x12	2,916	6082	150x20	8,1
6060	30x3	0,243	6060	60x6	0,972	6060	90x15	3,645	6082	150x25	10,125
6060	30x4	0,324	6060	60x8	1,296	6082	90x20	4,86	6082	150x30	12,15
6060	30x5	0,405	6060	60x10	1,62	2011	90x30	7,29	6082	150x40	16,2
6060	30x6	0,486	6082	60x10	1,62	6082	90x30	7,29	6082	150x50	20,25
6060	30x8	0,648	6060	60x12	1,944	2011	90x40	9,72	6082	150x60	24,3
6060	30x10	0,81	6060	60x15	2,43	6082	90x40	9,72	6082	150x80	32,4
6082	30x10	0,81	6082	60x15	2,43	2011	90x50	12,15	6060	160x10	4,32
6060	30x12	0,972	2011	60x20	3,24	6082	90x50	12,15	6060	160x15	6,48
6060	30x15	1,215	6060	60x20	3,24	2011	90x60	14,58	6060	160x20	8,65
6082	30x15	1,215	6082	60x20	3,24	6082	90x60	14,58	6060	180x10	4,86
2011	30x20	1,62	2011	60x25	4,05	2011	90x70	17,01	6060	180x15	7,29
6060	30x20	1,62	6082	60x25	4,05	6082	90x70	17,01	6060	180x20	9,72
6082	30x20	1,62	2011	60x30	4,86	6060	100x2	0,54	6060	200x6	3,24
6082	30x25	2,025	6082	60x30	4,86	6060	100x3	0,81	6060	200x8	4,32
6060	35x4	0,378	2011	60x35	5,67	6060	100x4	1,08	6060	200x10	5,4
6060	35x5	0,472	6082	60x35	5,67	6060	100x5	1,35	6082	200x10	5,4
6060	35x6	0,567	2011	60x40	6,48	6060	100x6	1,62	6060	200x12	6,48
6060	35x8	0,756	6082	60x40	6,48	6060	100x8	2,16	6060	200x15	8,1
6060	35x10	0,945	2011	60x50	8,1	6060	100x10	2,7	6082	200x15	8,1
6060	35x15	1,418	6082	60x50	8,1	6082	100x10	2,7	6060	200x20	10,8
6082	35x20	1,89	6060	70x5	0,945	6060	100x12	3,24	6082	200x20	10,8
6060	40x2	0,216	6060	70x6	1,134	6060	100x15	4,05	6082	200x25	13,5
6060	40x3	0,324	6060	70x8	1,512	6082	100x15	4,05	6082	200x30	16,2
6060	40x4	0,432	6060	70x10	1,89	2011	100x20	5,4	6082	200x40	22,4
6060	40x5	0,54	6082	70x10	1,89	6060	100x20	5,4	6082	200x50	27
6060	40x6	0,648	6060	70x12	2,268	6082	100x20	5,4	6060	250x10	6,75
6060	40x8	0,865	6060	70x15	2,836	6082	100x25	6,75	6060	250x12	8,1
6060	40x10	1,08	6082	70x15	2,836	2011	100x30	8,1	6060	250x15	10,125
6082	40x10	1,08	2011	70x20	3,78	6082	100x30	8,1	6082	250x20	13,5
6060	40x12	1,296	6060	70x20	3,78	2011	100x40	10,8	6082	250x25	16,88
6060	40x15	1,62	6082	70x20	3,78	6082	100x40	10,8	6060	300x15	12,15
6082	40x15	1,62	6082	70x25	4,725	2011	100x50	13,5	6082	300x20	16,2
2011	40x20	2,16	2011	70x30	5,67	6082	100x50	13,5			



# SQUARE BAR

Lega	B Dimensione	Peso al metro	Lega	B Dimensione	Peso al metro	Lega	B Dimensione	Peso al metro	Lega	B Dimensione	Peso al metro
6060	6	0,098	2011	25	1,69	6082	60	9,72	6082	110	32,67
6060	8	0,173	6082	30	2,43	2011	60	9,72	2011	110	32,67
6060	10	0,27	2011	30	2,43	6082	65	11,407	6082	120	38,88
6060	12	0,338	6082	35	3,307	6082	70	13,23	2011	120	38,88
6082	15	0,608	2011	35	3,307	2011	70	13,23	6082	130	45,63
6060	15	0,608	6082	40	4,32	6082	80	17,28	6082	140	52,92
6082	18	0,875	2011	40	4,32	2011	80	17,28	6082	150	60,75
6082	20	1,08	6082	45	5,468	6082	90	21,9	6082	160	69,12
2011	20	1,08	6082	50	6,75	2011	90	21,9	6082	170	77,03
6060	20	1,08	2011	50	6,75	6082	100	27	6082	180	87,48
6082	25	1,69	6082	55	8,168	2011	100	27	6082	200	108

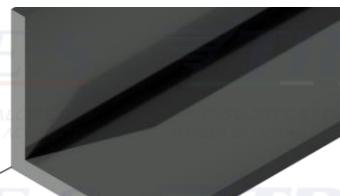


# CORNER UNITS

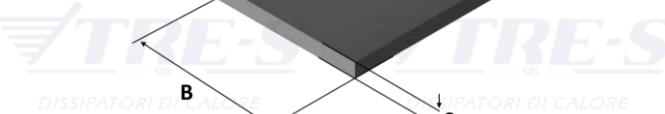
## DISSIPATORI DI CALORE SULLE QUATTRO LATIZIE

# UNEQUAL SIDES

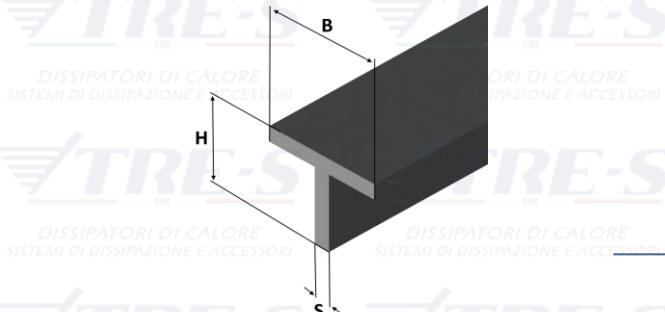
## DISSIPATORI DI CALORE SULLE QUATTRO LATIZIE



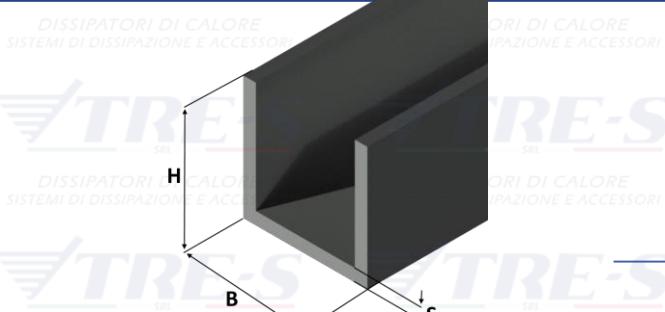
DISSIPATORI DI CALORE | SISTEMI DI DISSIPAZIONE E ACCESSORI | DISSIPATORI DI CALORE | SISTEMI DI DISSIPAZIONE E ACCESSORI



Lega	BxS Dimensione	Peso al metro	Lega	BxS Dimensione	Peso al metro
6060	10x1,5	0,078	6060	30x2	0,313
6060	15x1,5	0,115	6060	30x3	0,462
6060	15x2	0,152	6060	30x4	0,604
6060	20x1,5	0,155	6060	35x2	0,367
6060	20x2	0,205	6060	40x2	0,421
6060	20x3	0,3	6060	40x3	0,623
6060	25x2	0,259	6060	40x4	0,82
6060	25x3	0,381	6060	40x5	1,012
6060	30x1,5	0,237	6060	50x2	0,529



Lega	BxHxS Dimensione	Peso al metro	Lega	BxHxS Dimensione	Peso al metro
6060	10x10x1,5	0,073	6060	25x25x2	0,259
6060	15x15x1,5	0,116	6060	30x30x2	0,313
6060	15x15x2	0,151	6060	35x35x2	0,367
6060	20x20x2	0,205	6060	40x20x2	0,314

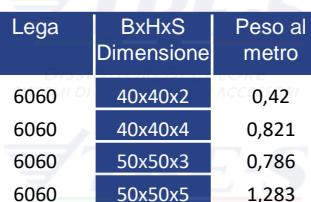


Leggi	BxHxS Dimensione	Peso al metro	Leggi	BxHxS Dimensione	Peso al metro
6060	6X6X1	0,044	6060	30x20x2	0,357
6060	8X8X1	0,06	6060	30x30x2	0,464
6060	10X10X1	0,076	6060	35x35x2	0,546
6060	12X12X1	0,092	6060	40X10X2	0,302
6060	15x15x1,5	0,17	6060	40x15x2	0,356
6060	20x10x2	0,194	6060	40x20x2	0,41
6060	20x20x2	0,302	6060	40x25x2	0,465
6060	25X10X1,5	0,17	6060	40x40x2	0,626
6060	25x25x2	0,383	6060	40x40x4	1,209
6060	30x10x2	0,248	6060	45X20X2	0,437

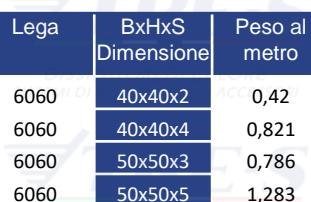


**DISSIPATORI DI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI**

# EQUAL SIDES



Lega	BxS Dimensione	Peso al metro
6060	60x10	2,97
6060	80x5	2,092
6060	80x8	3,284
6060	80x10	4,05
6060	100x4	2,116
6060	100x8	4,148
6060	100x10	5,13
6060	150x14	10,924



**RNLRS**  
DISSIPATORI CALORE  
SISTEMI DI DISSIPAZIONE E ACCESSORI

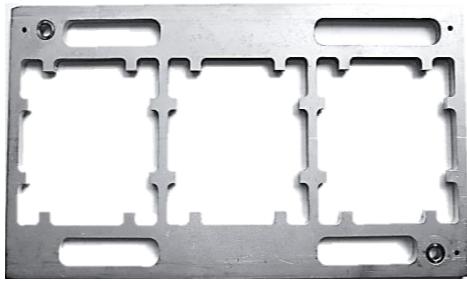


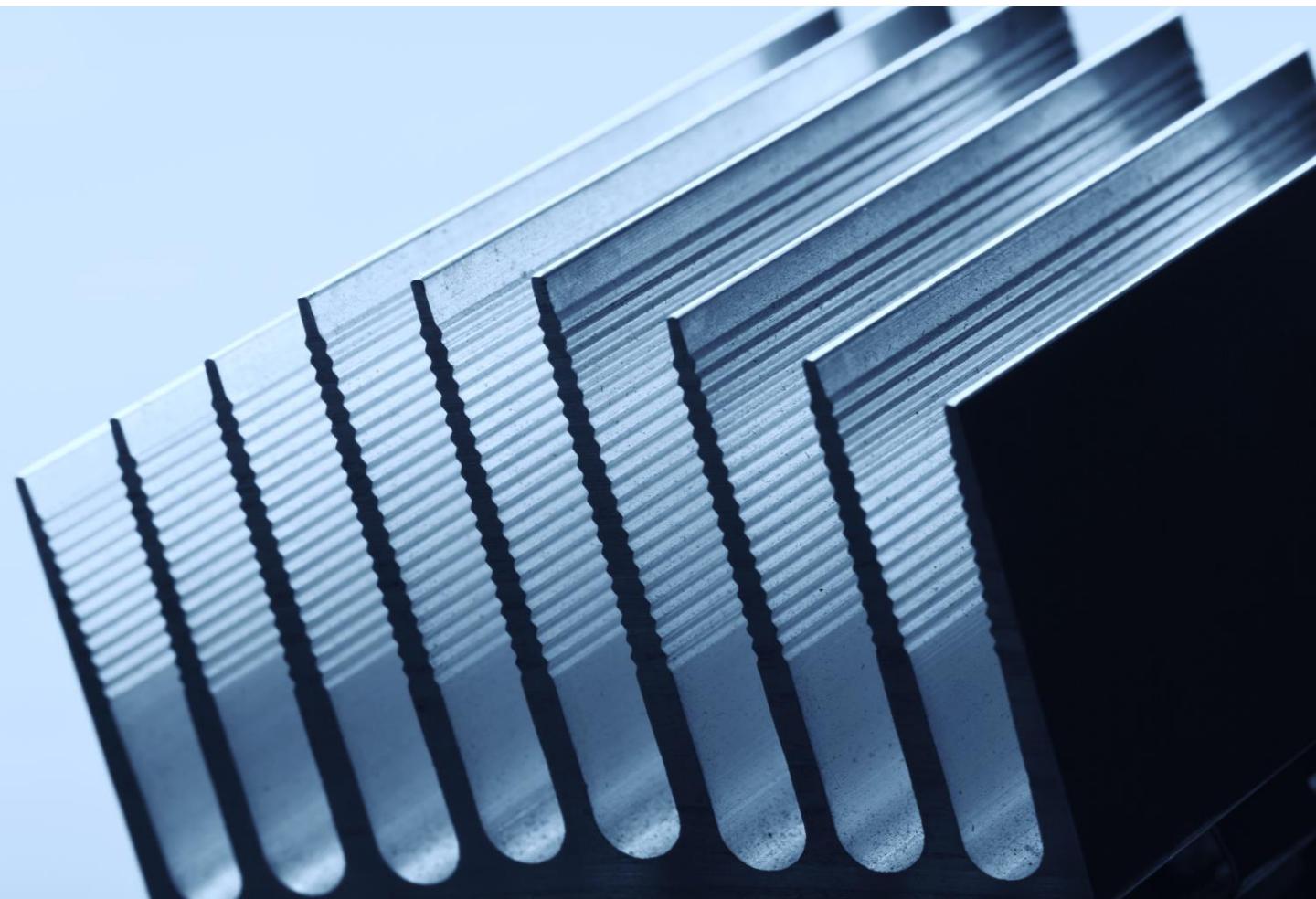


# FIXINGS

*One of our greatest strengths is being able to assist the customer with various requests; in fact, we are able to provide various custom accessories upon request.*

*These processes are based on profiles, extrusions, or solid pieces as described in the images.:*





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